MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Medical Laboratory Evaluation

Chemistry
2022 MLE-M3

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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	± 8%
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-11						Specimen IST- 12					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	108	125.3	0.5	0.4	125	121 - 130	109	145.8	0.5	0.4	146	141 - 150
All i-STAT Instruments	108	125.3	0.5	0.4	125	121 - 130	109	145.8	0.5	0.4	146	141 - 150
i-STAT - moderate	96	125.3	0.5	0.4	125	121 - 130	97	145.8	0.5	0.3	146	141 - 150
i-STAT - waived	12	125.4	0.5	0.4	125	121 - 130	12	145.8	0.8	0.6	146	141 - 150
	Specimen IST-13						**Specimen IST-14**					
All Method	107	140.0	0.5	0.3	140	135 - 144	107	145.1	0.5	0.4	145	141 - 150
All i-STAT Instruments	107	140.0	0.5	0.3	140	135 - 144	107	145.1	0.5	0.4	145	141 - 150
i-STAT - moderate	98	140.0	0.5	0.3	140	135 - 144	98	145.2	0.5	0.3	145	141 - 150
i-STAT - waived	9	-	-	-	140	135 - 144	9	-	-	-	145	141 - 150
	Specimen IST-15											
All Method	107	125.3	0.5	0.4	125	121 - 130						
All i-STAT Instruments	107	125.3	0.5	0.4	125	121 - 130						
i-STAT - moderate	98	125.3	0.5	0.4	125	121 - 130						
i-STAT - waived	9	-	-	-	125	121 - 130						

Potassium (mmol/L)

	Specimen IST-11						Specimen IST-12					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	110	2.80	0.01	0.0	2.8	2.3 - 3.3	109	4.21	0.03	0.8	4.2	3.7 - 4.8
All i-STAT Instruments	110	2.80	0.01	0.0	2.8	2.3 - 3.3	109	4.21	0.03	0.8	4.2	3.7 - 4.8
i-STAT - moderate	99	2.80	0.01	0.0	2.8	2.3 - 3.3	97	4.21	0.03	0.8	4.2	3.7 - 4.8
i-STAT - waived	11	2.80	0.01	0.0	2.8	2.3 - 3.3	12	4.22	0.04	0.9	4.2	3.7 - 4.8
	Specimen IST-13						**Specimen IST-14**					
All Method	102	3.80	0.01	0.0	3.8	3.3 - 4.3	106	6.12	0.04	0.7	6.1	5.6 - 6.7
All i-STAT Instruments	102	3.80	0.01	0.0	3.8	3.3 - 4.3	106	6.12	0.04	0.7	6.1	5.6 - 6.7
i-STAT - moderate	95	3.80	0.01	0.0	3.8	3.3 - 4.3	98	6.12	0.04	0.7	6.1	5.6 - 6.7
i-STAT - waived	9	-	-	-	3.8	3.3 - 4.3	9	-	-	-	6.1	5.6 - 6.7
	Specimen IST-15											
All Method	102	2.80	0.01	0.0	2.8	2.3 - 3.3						
All i-STAT Instruments	102	2.80	0.01	0.0	2.8	2.3 - 3.3						
i-STAT - moderate	95	2.80	0.01	0.0	2.8	2.3 - 3.3						
i-STAT - waived	9	-	-	-	2.8	2.3 - 3.3						

tCO_2 (mmol/L)

	Specimen IST-11						Specimen IST-12					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	105	24.2	0.8	3.4	24	19 - 30	104	20.6	0.7	3.6	21	16 - 25
All i-STAT Instruments	105	24.2	0.8	3.4	24	19 - 30	104	20.6	0.7	3.6	21	16 - 25
i-STAT - moderate	94	24.2	0.8	3.5	24	19 - 30	93	20.6	0.7	3.6	21	16 - 25
i-STAT - waived	11	24.5	0.7	2.8	24	19 - 30	11	20.6	0.8	3.9	21	16 - 25

	Specimen IST-13						Specimen IST-14					
All Method	99	25.8	0.9	3.5	26	20 - 31	104	13.6	0.6	4.7	14	10 - 17
All i-STAT Instruments	99	25.8	0.9	3.5	26	20 - 31	104	13.6	0.6	4.7	14	10 - 17
i-STAT - moderate	92	25.8	0.9	3.5	26	20 - 31	96	13.6	0.6	4.8	14	10 - 17
i-STAT - waived	7	-	-	-	26	20 - 31	8	-	-	-	14	10 - 17

	Specimen IST-15					
All Method	103	24.5	0.9	3.7	24	19 - 30
All i-STAT Instruments	103	24.5	0.9	3.7	24	19 - 30
i-STAT - moderate	95	24.5	0.9	3.7	24	19 - 30
i-STAT - waived	8	-	-	-	24	19 - 30

Chloride (mmol/L)

	Specimen IST-11						Specimen IST-12					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	109	75.5	0.7	0.9	76	71 - 80	110	83.5	0.6	0.8	84	79 - 88
All i-STAT Instruments	109	75.5	0.7	0.9	76	71 - 80	110	83.5	0.6	0.8	84	79 - 88
i-STAT - moderate	98	75.5	0.7	0.9	76	71 - 80	99	83.5	0.6	0.8	84	79 - 88
i-STAT - waived	11	75.3	0.5	0.6	75	71 - 80	11	83.4	0.7	0.8	83	79 - 88

	Specimen IST-13						Specimen IST-14					
All Method	104	87.3	0.7	0.8	87	82 - 92	107	109.5	0.7	0.6	109	104 - 115
All i-STAT Instruments	104	87.3	0.7	0.8	87	82 - 92	107	109.5	0.7	0.6	109	104 - 115
i-STAT - moderate	96	87.3	0.7	0.8	87	82 - 92	99	109.5	0.7	0.6	109	104 - 115
i-STAT - waived	8	-	-	-	87	82 - 92	8	-	-	-	110	104 - 115

	Specimen IST-15					
All Method	107	75.3	0.7	1.0	75	71 - 80
All i-STAT Instruments	107	75.3	0.7	1.0	75	71 - 80
i-STAT - moderate	99	75.3	0.8	1.0	75	71 - 80
i-STAT - waived	8	-	-	-	76	71 - 80

Urea Nitrogen (BUN) (mg/dL)

	Specimen IST-11						Specimen IST-12					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	108	68.3	1.4	2.1	68	62 - 75	108	36.4	0.6	1.8	36	33 - 40
All i-STAT Instruments	108	68.3	1.4	2.1	68	62 - 75	108	36.4	0.6	1.8	36	33 - 40
i-STAT - moderate	97	68.2	1.5	2.1	68	62 - 75	97	36.4	0.7	1.8	36	33 - 40
i-STAT - waived	11	68.4	0.9	1.4	68	62 - 75	11	36.3	0.5	1.3	36	33 - 40
	Specimen IST-13						**Specimen IST-14**					
All Method	105	61.4	1.3	2.2	61	55 - 67	107	21.9	0.5	2.2	22	19 - 24
All i-STAT Instruments	105	61.4	1.3	2.2	61	55 - 67	107	21.9	0.5	2.2	22	19 - 24
i-STAT - moderate	97	61.5	1.3	2.2	61	55 - 67	99	21.9	0.5	2.2	22	19 - 24
i-STAT - waived	8	-	-	-	61	55 - 67	8	-	-	-	22	19 - 24
	Specimen IST-15											
All Method	106	68.6	1.3	1.8	69	62 - 75						
All i-STAT Instruments	106	68.6	1.3	1.8	69	62 - 75						
i-STAT - moderate	98	68.6	1.3	1.9	69	62 - 75						
i-STAT - waived	8	-	-	-	69	62 - 75						

Glucose (mg/dL)

	Specimen IST-11						Specimen IST-12					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	111	180.1	1.5	0.8	180	162 - 199	106	133.7	1.5	1.1	134	120 - 148
All i-STAT Instruments	111	180.1	1.5	0.8	180	162 - 199	106	133.7	1.5	1.1	134	120 - 148
i-STAT - moderate	100	180.2	1.5	0.8	180	162 - 199	96	133.8	1.5	1.1	134	120 - 148
i-STAT - waived	11	179.5	1.3	0.7	180	161 - 198	11	134.0	3.9	2.9	133	120 - 148
	Specimen IST-13						**Specimen IST-14**					
All Method	106	148.1	1.5	1.0	148	133 - 163	106	86.7	1.0	1.1	87	78 - 96
All i-STAT Instruments	106	148.1	1.5	1.0	148	133 - 163	106	86.7	1.0	1.1	87	78 - 96
i-STAT - moderate	99	148.1	1.5	1.0	148	133 - 163	99	86.7	0.9	1.1	87	78 - 96
i-STAT - waived	8	-	-	-	147	133 - 163	8	-	-	-	88	78 - 96
	Specimen IST-15											
All Method	106	179.7	1.6	0.9	180	161 - 198						
All i-STAT Instruments	106	179.7	1.6	0.9	180	161 - 198						
i-STAT - moderate	99	179.8	1.6	0.9	180	161 - 198						
i-STAT - waived	8	-	-	-	179	161 - 198						

Hematocrit (percent)

Instrument	Specimen IST-11 Labs	Mean	SD	CV	Median	Range	Specimen IST-12 Labs	Mean	SD	CV	Median	Range
All Method	25	20.5	0.6	2.9	20	19 - 22	24	35.0	0.7	2.0	35	32 - 38
All i-STAT Instruments	25	20.5	0.6	2.9	20	19 - 22	24	35.0	0.7	2.0	35	32 - 38
i-STAT - moderate	17	20.7	0.6	2.8	21	19 - 22	16	35.1	0.7	2.0	35	33 - 38
i-STAT - waived	8	20.1	0.4	1.8	20	18 - 22	8	34.6	0.5	1.5	35	32 - 37

Instrument	Specimen IST-13 Labs	Mean	SD	CV	Median	Range	Specimen IST-14 Labs	Mean	SD	CV	Median	Range
All Method	22	25.7	0.6	2.5	26	24 - 28	23	24.7	1.6	6.3	25	23 - 27
All i-STAT Instruments	22	25.7	0.6	2.5	26	24 - 28	23	24.7	1.6	6.3	25	23 - 27
i-STAT - moderate	16	25.9	0.6	2.4	26	24 - 28	17	24.9	1.3	5.4	25	23 - 27
i-STAT - waived	6	25.2	0.4	1.6	25	23 - 27	6	23.8	1.9	8.1	25	22 - 26

Instrument	Specimen IST-15 Labs	Mean	SD	CV	Median	Range
All Method	22	20.7	0.7	3.5	21	19 - 22
All i-STAT Instruments	22	20.7	0.7	3.5	21	19 - 22
i-STAT - moderate	16	20.8	0.7	3.6	21	19 - 23
i-STAT - waived	6	20.3	0.5	2.5	20	19 - 22

Hemoglobin (g/dL)

Instrument	Specimen IST-11 Labs	Mean	SD	CV	Median	Range	Specimen IST-12 Labs	Mean	SD	CV	Median	Range
All Method	25	6.97	0.19	2.7	7.1	6.4 - 7.5	24	11.85	0.26	2.2	11.9	11.0 - 12.7
All i-STAT Instruments	25	6.97	0.19	2.7	7.1	6.4 - 7.5	24	11.85	0.26	2.2	11.9	11.0 - 12.7
i-STAT - moderate	17	7.02	0.19	2.7	7.1	6.5 - 7.6	16	11.94	0.22	1.8	11.9	11.1 - 12.8
i-STAT - waived	8	6.88	0.14	2.0	6.8	6.3 - 7.4	8	11.69	0.28	2.4	11.8	10.8 - 12.6

Instrument	Specimen IST-13 Labs	Mean	SD	CV	Median	Range	Specimen IST-14 Labs	Mean	SD	CV	Median	Range
All Method	22	8.71	0.21	2.5	8.8	8.1 - 9.4	22	8.49	0.31	3.6	8.5	7.8 - 9.1
All i-STAT Instruments	22	8.71	0.21	2.5	8.8	8.1 - 9.4	22	8.49	0.31	3.6	8.5	7.8 - 9.1
i-STAT - moderate	16	8.78	0.21	2.4	8.8	8.1 - 9.4	16	8.56	0.29	3.4	8.5	7.9 - 9.2
i-STAT - waived	6	8.55	0.12	1.4	8.5	7.9 - 9.2	6	8.28	0.28	3.4	8.4	7.7 - 8.9

Instrument	Specimen IST-15 Labs	Mean	SD	CV	Median	Range
All Method	22	7.02	0.24	3.5	7.1	6.5 - 7.6
All i-STAT Instruments	22	7.02	0.24	3.5	7.1	6.5 - 7.6
i-STAT - moderate	16	7.06	0.26	3.7	7.1	6.5 - 7.6
i-STAT - waived	6	6.90	0.15	2.2	6.8	6.4 - 7.4

Creatinine (mg/dL)

	Specimen IST-11						Specimen IST-12					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	122	3.93	0.16	4.0	3.9	3.3 - 4.6	120	1.62	0.06	3.9	1.6	1.3 - 2.0
All i-STAT Instruments	121	3.92	0.16	4.0	3.9	3.3 - 4.6	119	1.62	0.06	3.8	1.6	1.3 - 2.0
i-STAT - moderate	97	3.95	0.14	3.6	3.9	3.3 - 4.6	95	1.63	0.06	3.8	1.6	1.3 - 2.0
i-STAT - waived	24	3.82	0.16	4.3	3.8	3.2 - 4.4	23	1.59	0.04	2.6	1.6	1.2 - 1.9
	Specimen IST-13						**Specimen IST-14**					
All Method	105	6.09	0.24	4.0	6.1	5.1 - 7.1	104	1.02	0.05	4.8	1.0	0.7 - 1.4
All i-STAT Instruments	104	6.09	0.24	4.0	6.1	5.1 - 7.1	104	1.02	0.05	4.8	1.0	0.7 - 1.4
i-STAT - moderate	96	6.10	0.24	4.0	6.1	5.1 - 7.1	96	1.02	0.05	4.6	1.0	0.7 - 1.4
i-STAT - waived	8	-	-	-	6.0	5.1 - 7.1	8	-	-	-	1.0	0.7 - 1.4
	Specimen IST-15											
All Method	105	3.94	0.15	3.8	3.9	3.3 - 4.6						
All i-STAT Instruments	104	3.94	0.15	3.8	3.9	3.3 - 4.6						
i-STAT - moderate	96	3.94	0.15	3.9	3.9	3.3 - 4.6						
i-STAT - waived	8	-	-	-	3.9	3.3 - 4.6						

Ionized Calcium (mmol/L)

	Specimen IST-11						Specimen IST-12					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	107	2.024	0.018	0.9	2.02	1.96 - 2.08	106	1.086	0.014	1.3	1.09	1.04 - 1.13
All i-STAT Instruments	107	2.024	0.018	0.9	2.02	1.96 - 2.08	106	1.086	0.014	1.3	1.09	1.04 - 1.13
i-STAT - moderate	97	2.024	0.018	0.9	2.02	1.96 - 2.08	96	1.086	0.014	1.3	1.09	1.04 - 1.13
i-STAT - waived	11	2.027	0.030	1.5	2.03	1.93 - 2.12	11	1.085	0.020	1.8	1.08	1.02 - 1.15
	Specimen IST-13						**Specimen IST-14**					
All Method	102	2.148	0.019	0.9	2.15	2.09 - 2.21	103	0.806	0.009	1.1	0.80	0.77 - 0.84
All i-STAT Instruments	102	2.148	0.019	0.9	2.15	2.09 - 2.21	103	0.806	0.009	1.1	0.80	0.77 - 0.84
i-STAT - moderate	94	2.148	0.018	0.9	2.15	2.09 - 2.21	95	0.806	0.009	1.1	0.80	0.77 - 0.84
i-STAT - waived	8	-	-	-	2.15	2.09 - 2.21	8	-	-	-	0.81	0.77 - 0.84
	Specimen IST-15											
All Method	103	2.032	0.021	1.0	2.03	1.96 - 2.10						
All i-STAT Instruments	103	2.032	0.021	1.0	2.03	1.96 - 2.10						
i-STAT - moderate	95	2.032	0.019	0.9	2.03	1.97 - 2.09						
i-STAT - waived	8	-	-	-	2.03	1.96 - 2.10						

Albumin (g/dL)

	Specimen CH-11						Specimen CH-12					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	143	2.80	0.34	12.0	2.9	2.5 - 3.1	143	2.00	0.22	10.9	2.1	1.8 - 2.3
All Bromocresol Green Reagents	107	2.98	0.12	4.1	3.0	2.6 - 3.3	107	2.11	0.10	4.8	2.1	1.8 - 2.4
All Bromocresol Purple Reagents	34	2.25	0.07	2.9	2.2	2.0 - 2.5	35	1.67	0.09	5.2	1.7	1.4 - 1.9
Abaxis Piccolo												
Abaxis Piccolo - waived	11	2.28	0.08	3.3	2.3	2.0 - 2.6	11	1.74	0.05	2.9	1.7	1.5 - 2.0
All Chemistry Instruments	15	2.27	0.08	3.5	2.3	2.0 - 2.6	15	1.74	0.06	3.6	1.7	1.5 - 2.0
Abbott Architect Albumin (BCG)												
Abbott Architect	5	2.84	0.05	1.9	2.8	2.5 - 3.2	5	2.00	0.01	0.0	2.0	1.8 - 2.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	2.99	0.11	3.5	3.0	2.6 - 3.3	16	2.13	0.04	2.1	2.1	1.9 - 2.4
Beckman AU												
Beckman AU systems	22	3.01	0.06	1.9	3.0	2.7 - 3.4	22	2.14	0.05	2.3	2.1	1.9 - 2.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	2.91	0.08	2.8	2.9	2.6 - 3.2	18	2.11	0.07	3.2	2.1	1.8 - 2.4
Roche cobas c 501												
Roche cobas 6000 / c 501	8	3.19	0.15	4.6	3.2	2.8 - 3.6	8	2.26	0.13	5.8	2.3	2.0 - 2.5
Roche Integra												
Roche Integra	12	3.08	0.11	3.6	3.1	2.7 - 3.4	12	2.14	0.09	4.2	2.1	1.9 - 2.4
Siemens Healthcare												
Siemens Dimension	19	2.23	0.05	2.0	2.2	2.0 - 2.5	20	1.61	0.06	3.4	1.6	1.4 - 1.8
VITROS												
VITROS 250,350,400 500,700,750,950	10	2.85	0.05	1.8	2.9	2.5 - 3.2	10	1.98	0.04	2.1	2.0	1.7 - 2.2
VITROS XT 3400	5	2.94	0.11	3.9	2.9	2.6 - 3.3	5	2.00	0.07	3.5	2.0	1.8 - 2.2
All Chemistry Instruments	18	2.88	0.09	3.1	2.9	2.5 - 3.2	18	1.98	0.05	2.8	2.0	1.7 - 2.2

Albumin (g/dL)

	Specimen CH-13						Specimen CH-14					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	132	2.60	0.28	10.8	2.7	2.3 - 2.9	132	3.61	0.41	11.3	3.8	3.2 - 4.0
All Bromocresol Green Reagents	107	2.72	0.11	4.2	2.7	2.4 - 3.0	108	3.79	0.16	4.3	3.8	3.4 - 4.2
All Bromocresol Purple Reagents	23	2.04	0.05	2.5	2.0	1.8 - 2.3	24	2.81	0.08	3.0	2.8	2.5 - 3.1
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	2.1	1.8 - 2.3	3	-	-	-	2.7	2.5 - 3.1
All Chemistry Instruments	4	-	-	-	2.1	1.9 - 2.4	4	-	-	-	2.8	2.4 - 3.1
Abbott Architect Albumin (BCG)												
Abbott Architect	5	2.62	0.04	1.7	2.6	2.3 - 2.9	5	3.64	0.05	1.5	3.6	3.2 - 4.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	2.72	0.07	2.4	2.7	2.4 - 3.0	16	3.77	0.08	2.1	3.8	3.3 - 4.2
Beckman AU												
Beckman AU systems	22	2.75	0.07	2.7	2.7	2.4 - 3.1	22	3.80	0.10	2.5	3.8	3.4 - 4.2
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	2.65	0.07	2.7	2.7	2.3 - 3.0	18	3.62	0.15	4.1	3.6	3.2 - 4.0
Roche cobas c 501												
Roche cobas 6000 / c 501	8	2.91	0.11	3.9	2.9	2.6 - 3.3	8	3.99	0.10	2.5	4.0	3.5 - 4.4
Roche Integra												
Roche Integra	12	2.82	0.11	4.0	2.8	2.5 - 3.1	12	3.93	0.16	4.0	3.9	3.5 - 4.4
Siemens Healthcare												
Siemens Dimension	20	2.04	0.05	2.5	2.0	1.8 - 2.3	20	2.82	0.07	2.5	2.8	2.5 - 3.2
VITROS												
VITROS 250,350,400 500,700,750,950	10	2.59	0.06	2.2	2.6	2.3 - 2.9	10	3.79	0.17	4.6	3.8	3.4 - 4.2
VITROS XT 3400	5	2.62	0.11	4.2	2.6	2.3 - 2.9	5	3.84	0.17	4.4	3.8	3.4 - 4.3
All Chemistry Instruments	18	2.60	0.08	2.9	2.6	2.3 - 2.9	18	3.82	0.17	4.4	3.8	3.4 - 4.2

Albumin (g/dL)

Specimen CH-15

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	132	3.11	0.35	11.2	3.2	2.8 - 3.5
All Bromocresol Green Reagents	107	3.26	0.13	4.1	3.2	2.9 - 3.6
All Bromocresol Purple Reagents	24	2.43	0.07	2.8	2.4	2.1 - 2.7
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	2.4	2.1 - 2.7
All Chemistry Instruments	4	-	-	-	2.4	2.1 - 2.7
Abbott Architect Albumin (BCG)						
Abbott Architect	5	3.14	0.05	1.7	3.1	2.8 - 3.5
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	3.25	0.08	2.5	3.2	2.9 - 3.6
Beckman AU						
Beckman AU systems	22	3.29	0.08	2.4	3.3	2.9 - 3.7
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	3.13	0.11	3.5	3.2	2.8 - 3.5
Roche cobas c 501						
Roche cobas 6000 / c 501	8	3.49	0.14	3.9	3.5	3.1 - 3.9
Roche Integra						
Roche Integra	12	3.39	0.12	3.7	3.4	3.0 - 3.8
Siemens Healthcare						
Siemens Dimension	20	2.43	0.06	2.4	2.4	2.1 - 2.7
VITROS						
VITROS 250,350,400 500,700,750,950	10	3.22	0.09	2.9	3.2	2.8 - 3.6
VITROS XT 3400	5	3.20	0.12	3.8	3.2	2.8 - 3.6
All Chemistry Instruments	18	3.22	0.10	3.1	3.2	2.8 - 3.6

Bilirubin, Direct (mg/dL)

Reagent/Instrument	Specimen CH-11 Labs	Mean	SD	CV	Median	Range	Specimen CH-12 Labs	Mean	SD	CV	Median	Range
All Method	76	0.74	0.25	33.5	0.7	0.2 - 1.3	76	0.23	0.11	48.3	0.2	0.0 - 0.5
All Roche Reagents	11	0.54	0.09	17.2	0.5	0.3 - 0.8	11	0.17	0.05	27.0	0.2	0.0 - 0.3
Beckman AU												
Beckman AU systems	15	0.81	0.12	14.6	0.8	0.5 - 1.1	15	0.25	0.05	20.4	0.3	0.1 - 0.4
Siemens Healthcare												
Siemens Dimension	12	0.60	0.01	0.0	0.6	0.5 - 0.7	14	0.16	0.05	30.3	0.2	0.0 - 0.3
All Chemistry Instruments	13	0.60	0.01	0.0	0.6	0.5 - 0.7	15	0.17	0.05	29.3	0.2	0.0 - 0.3
VITROS-BuBc and Bc												
All Chemistry Instruments	10	0.58	0.31	53.2	0.7	0.0 - 1.2	10	0.14	0.16	117.6	0.1	0.0 - 0.5

Reagent/Instrument	Specimen CH-13 Labs	Mean	SD	CV	Median	Range	Specimen CH-14 Labs	Mean	SD	CV	Median	Range
All Method	76	0.59	0.22	37.1	0.6	0.1 - 1.1	76	1.20	0.33	27.7	1.2	0.5 - 1.9
All Roche Reagents	11	0.42	0.08	18.0	0.4	0.2 - 0.6	11	0.88	0.15	16.7	0.8	0.5 - 1.2
Beckman AU												
Beckman AU systems	15	0.65	0.09	14.0	0.7	0.4 - 0.9	15	1.26	0.14	11.1	1.3	0.9 - 1.6
Siemens Healthcare												
Siemens Dimension	14	0.46	0.06	14.1	0.5	0.3 - 0.6	14	0.94	0.09	9.0	1.0	0.7 - 1.2
All Chemistry Instruments	15	0.46	0.06	13.7	0.5	0.3 - 0.6	15	0.95	0.08	8.8	1.0	0.7 - 1.2
VITROS-BuBc and Bc												
All Chemistry Instruments	10	0.43	0.27	63.0	0.5	0.0 - 1.0	10	1.09	0.39	35.5	1.2	0.3 - 1.9

Reagent/Instrument	Specimen CH-15 Labs	Mean	SD	CV	Median	Range
All Method	76	0.93	0.28	30.2	0.9	0.3 - 1.5
All Roche Reagents	11	0.67	0.10	15.0	0.7	0.4 - 0.9
Beckman AU						
Beckman AU systems	15	1.02	0.13	12.9	1.0	0.7 - 1.3
Siemens Healthcare						
Siemens Dimension	14	0.74	0.06	8.7	0.8	0.6 - 0.9
All Chemistry Instruments	15	0.75	0.06	8.6	0.8	0.6 - 0.9
VITROS-BuBc and Bc						
All Chemistry Instruments	10	0.76	0.30	38.8	0.8	0.1 - 1.4

Bilirubin, Total (mg/dL)

	Specimen CH-11						Specimen CH-12					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	144	2.61	0.27	10.5	2.6	2.0 - 3.2	143	0.84	0.12	14.8	0.8	0.4 - 1.3
All Alfa Wassermann Reagents	16	2.92	0.20	6.9	2.9	2.3 - 3.6	16	0.97	0.07	7.3	1.0	0.5 - 1.4
All Horiba Pentra Reagents	18	2.64	0.19	7.0	2.7	2.1 - 3.2	18	0.84	0.09	10.9	0.9	0.4 - 1.3
All Roche T. bili Special Reagents	18	2.37	0.16	6.6	2.4	1.8 - 2.9	18	0.76	0.08	11.2	0.8	0.3 - 1.2
Abaxis Piccolo												
Abaxis Piccolo - waived	12	2.29	0.24	10.6	2.4	1.8 - 2.8	12	0.77	0.10	12.8	0.8	0.3 - 1.2
All Chemistry Instruments	16	2.28	0.25	11.0	2.3	1.8 - 2.8	16	0.76	0.12	16.0	0.8	0.3 - 1.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	2.92	0.20	6.9	2.9	2.3 - 3.6	16	0.97	0.07	7.3	1.0	0.5 - 1.4
Beckman AU												
Beckman AU systems	22	2.75	0.16	5.9	2.8	2.2 - 3.3	22	0.95	0.06	6.3	1.0	0.5 - 1.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	2.64	0.19	7.0	2.7	2.1 - 3.2	18	0.84	0.09	10.9	0.9	0.4 - 1.3
Roche Integra-T. bili Gen.3												
All Chemistry Instruments	11	2.39	0.18	7.4	2.4	1.9 - 2.9	11	0.77	0.10	13.1	0.8	0.3 - 1.2
Siemens Healthcare												
Siemens Dimension	20	2.66	0.14	5.1	2.7	2.1 - 3.2	20	0.83	0.09	11.1	0.8	0.4 - 1.3
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	10	2.75	0.21	7.5	2.9	2.2 - 3.3	10	0.83	0.16	18.9	0.8	0.4 - 1.3
All Chemistry Instruments	18	2.72	0.21	7.7	2.8	2.1 - 3.3	18	0.79	0.15	18.4	0.8	0.3 - 1.2

Bilirubin, Total (mg/dL)

	Specimen CH-13						Specimen CH-14					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	131	2.11	0.19	8.8	2.1	1.6 - 2.6	131	4.29	0.33	7.7	4.3	3.4 - 5.2
All Alfa Wassermann Reagents	16	2.34	0.16	7.0	2.3	1.8 - 2.9	16	4.73	0.30	6.3	4.8	3.7 - 5.7
All Horiba Pentra Reagents	18	2.09	0.14	6.7	2.1	1.6 - 2.6	18	4.29	0.22	5.2	4.3	3.4 - 5.2
All Roche T. bili Special Reagents	18	1.89	0.12	6.1	1.9	1.4 - 2.3	18	3.92	0.22	5.5	3.9	3.1 - 4.8
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	1.9	1.6 - 2.6	3	-	-	-	3.8	3.4 - 5.2
All Chemistry Instruments	4	-	-	-	2.0	1.6 - 2.5	4	-	-	-	4.0	3.1 - 4.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	2.34	0.16	7.0	2.3	1.8 - 2.9	16	4.73	0.30	6.3	4.8	3.7 - 5.7
Beckman AU												
Beckman AU systems	22	2.22	0.12	5.2	2.2	1.7 - 2.7	22	4.35	0.22	5.1	4.4	3.4 - 5.3
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	2.09	0.14	6.7	2.1	1.6 - 2.6	18	4.29	0.22	5.2	4.3	3.4 - 5.2
Roche Integra-T. bili Gen.3												
All Chemistry Instruments	11	1.92	0.12	6.1	1.9	1.5 - 2.4	11	3.92	0.24	6.2	3.9	3.1 - 4.8
Siemens Healthcare												
Siemens Dimension	20	2.10	0.11	5.1	2.1	1.6 - 2.6	20	4.32	0.16	3.7	4.3	3.4 - 5.2
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	10	2.16	0.11	5.0	2.2	1.7 - 2.6	10	4.42	0.25	5.6	4.5	3.5 - 5.4
All Chemistry Instruments	18	2.13	0.15	7.0	2.2	1.7 - 2.6	18	4.39	0.29	6.6	4.4	3.5 - 5.3

Bilirubin, Total (mg/dL)

Specimen CH-15

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	130	3.26	0.28	8.5	3.3	2.6 - 4.0
All Alfa Wassermann Reagents	16	3.61	0.21	5.9	3.7	2.8 - 4.4
All Horiba Pentra Reagents	18	3.23	0.23	7.1	3.3	2.5 - 3.9
All Roche T. bili Special Reagents	17	2.96	0.16	5.5	3.0	2.3 - 3.6
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	2.9	2.6 - 4.0
All Chemistry Instruments	4	-	-	-	3.0	2.3 - 3.6
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	3.61	0.21	5.9	3.7	2.8 - 4.4
Beckman AU						
Beckman AU systems	22	3.34	0.18	5.5	3.4	2.6 - 4.1
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	3.23	0.23	7.1	3.3	2.5 - 3.9
Roche Integra-T. bili Gen.3						
All Chemistry Instruments	11	2.96	0.19	6.3	3.0	2.3 - 3.6
Siemens Healthcare						
Siemens Dimension	20	3.27	0.16	4.8	3.3	2.6 - 4.0
VITROS - TBIL						
VITROS 250,350,400 500,700,750,950	10	3.41	0.21	6.1	3.4	2.7 - 4.1
All Chemistry Instruments	18	3.35	0.28	8.4	3.4	2.6 - 4.1

Calcium (mg/dL)

	Specimen CH-11						Specimen CH-12					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	143	10.67	0.27	2.5	10.7	9.6 - 11.7	144	8.62	0.26	3.1	8.6	7.6 - 9.7
All Arsenazo Methods	63	10.63	0.27	2.5	10.6	9.6 - 11.7	64	8.63	0.31	3.6	8.6	7.6 - 9.7
All CPC Methods	79	10.72	0.25	2.3	10.7	9.7 - 11.8	80	8.62	0.22	2.5	8.6	7.6 - 9.7
Abaxis Piccolo												
Abaxis Piccolo - waived	12	10.83	0.31	2.9	10.8	9.8 - 11.9	12	8.78	0.34	3.9	8.7	7.7 - 9.8
All Chemistry Instruments	16	10.83	0.33	3.0	10.8	9.8 - 11.9	16	8.82	0.33	3.7	8.8	7.8 - 9.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	15	10.61	0.30	2.8	10.6	9.6 - 11.7	15	8.83	0.20	2.3	8.8	7.8 - 9.9
Beckman AU												
Beckman AU systems	22	10.74	0.15	1.4	10.7	9.7 - 11.8	22	8.55	0.18	2.2	8.5	7.5 - 9.6
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	16	10.83	0.35	3.3	10.9	9.8 - 11.9	16	8.69	0.27	3.1	8.7	7.6 - 9.7
Roche Integra												
Roche Integra	12	10.80	0.13	1.2	10.8	9.8 - 11.8	12	8.75	0.14	1.6	8.8	7.7 - 9.8
Siemens Healthcare												
Siemens Dimension	20	10.47	0.16	1.5	10.5	9.4 - 11.5	20	8.48	0.13	1.5	8.5	7.4 - 9.5
All Chemistry Instruments	21	10.47	0.16	1.5	10.5	9.4 - 11.5	21	8.47	0.12	1.5	8.4	7.4 - 9.5
VITROS												
VITROS 250,350,400 500,700,750,950	10	10.57	0.20	1.9	10.6	9.5 - 11.6	10	8.48	0.15	1.7	8.5	7.4 - 9.5
All Chemistry Instruments	18	10.63	0.19	1.8	10.6	9.6 - 11.7	18	8.51	0.14	1.7	8.5	7.5 - 9.6

Calcium (mg/dL)

	Specimen CH-13						Specimen CH-14					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	131	10.02	0.25	2.5	10.0	9.0 - 11.1	132	12.63	0.32	2.5	12.6	11.6 - 13.7
All Arsenazo Methods	51	9.97	0.27	2.7	10.0	8.9 - 11.0	52	12.48	0.28	2.3	12.5	11.4 - 13.5
All CPC Methods	80	10.04	0.23	2.3	10.1	9.0 - 11.1	79	12.74	0.28	2.2	12.8	11.7 - 13.8
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	9.9	8.9 - 11.0	3	-	-	-	12.0	11.4 - 13.5
All Chemistry Instruments	4	-	-	-	9.9	8.9 - 11.0	4	-	-	-	12.2	11.1 - 13.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	15	10.21	0.32	3.1	10.1	9.2 - 11.3	15	12.41	0.28	2.2	12.5	11.4 - 13.5
Beckman AU												
Beckman AU systems	22	10.02	0.13	1.3	10.0	9.0 - 11.1	22	12.75	0.23	1.8	12.8	11.7 - 13.8
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	16	10.16	0.29	2.8	10.2	9.1 - 11.2	15	12.91	0.23	1.8	13.0	11.9 - 14.0
Roche Integra												
Roche Integra	12	10.18	0.18	1.8	10.1	9.1 - 11.2	12	12.88	0.18	1.4	12.9	11.8 - 13.9
Siemens Healthcare												
Siemens Dimension	20	9.84	0.16	1.7	9.9	8.8 - 10.9	20	12.47	0.23	1.9	12.5	11.4 - 13.5
All Chemistry Instruments	21	9.84	0.16	1.6	9.8	8.8 - 10.9	21	12.48	0.24	1.9	12.5	11.4 - 13.5
VITROS												
VITROS 250,350,400 500,700,750,950	10	9.96	0.20	2.0	10.0	8.9 - 11.0	10	12.59	0.30	2.4	12.6	11.5 - 13.6
All Chemistry Instruments	18	9.99	0.20	2.0	10.0	8.9 - 11.0	18	12.58	0.28	2.2	12.6	11.5 - 13.6

Calcium (mg/dL)

Specimen CH-15

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	131	11.36	0.26	2.3	11.4	10.3 - 12.4
All Arsenazo Methods	52	11.29	0.27	2.4	11.2	10.2 - 12.3
All CPC Methods	78	11.42	0.23	2.0	11.4	10.4 - 12.5
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	11.2	10.2 - 12.3
All Chemistry Instruments	4	-	-	-	11.2	10.2 - 12.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	15	11.40	0.26	2.2	11.4	10.4 - 12.4
Beckman AU						
Beckman AU systems	22	11.44	0.16	1.4	11.5	10.4 - 12.5
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	16	11.51	0.32	2.7	11.6	10.5 - 12.6
Roche Integra						
Roche Integra	12	11.51	0.19	1.6	11.5	10.5 - 12.6
Siemens Healthcare						
Siemens Dimension	20	11.15	0.23	2.0	11.2	10.1 - 12.2
All Chemistry Instruments	21	11.15	0.22	2.0	11.2	10.1 - 12.2
VITROS						
VITROS 250,350,400 500,700,750,950	10	11.38	0.24	2.1	11.4	10.3 - 12.4
All Chemistry Instruments	18	11.36	0.24	2.1	11.4	10.3 - 12.4

Creatinine (mg/dL)

	Specimen CH-11						Specimen CH-12					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	143	3.02	0.14	4.8	3.0	2.5 - 3.5	141	1.50	0.09	5.8	1.5	1.1 - 1.8
All Alfa Wassermann Reagents	16	2.99	0.18	5.9	3.0	2.5 - 3.5	16	1.61	0.11	6.6	1.6	1.3 - 2.0
All Roche Reagents	21	2.93	0.13	4.6	2.9	2.4 - 3.4	21	1.48	0.06	4.2	1.5	1.1 - 1.8
All VITROS Reagents	18	3.19	0.10	3.2	3.2	2.7 - 3.7	18	1.51	0.06	4.2	1.5	1.2 - 1.9
Abaxis Piccolo												
Abaxis Piccolo - waived	12	3.04	0.18	5.9	3.0	2.5 - 3.5	12	1.48	0.21	13.9	1.5	1.1 - 1.8
All Chemistry Instruments	16	3.03	0.17	5.5	3.0	2.5 - 3.5	16	1.46	0.20	13.5	1.5	1.1 - 1.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	2.99	0.18	5.9	3.0	2.5 - 3.5	16	1.61	0.11	6.6	1.6	1.3 - 2.0
Beckman AU												
Beckman AU systems	22	3.05	0.07	2.2	3.1	2.5 - 3.6	22	1.50	0.04	2.9	1.5	1.2 - 1.8
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	2.89	0.14	4.7	2.9	2.4 - 3.4	17	1.44	0.10	7.0	1.4	1.1 - 1.8
Roche Integra												
Roche Integra	12	2.94	0.12	4.0	3.0	2.5 - 3.4	12	1.49	0.05	3.5	1.5	1.1 - 1.8
Siemens Healthcare												
Siemens Dimension	19	3.08	0.06	2.0	3.1	2.6 - 3.6	20	1.54	0.05	3.2	1.5	1.2 - 1.9
All Chemistry Instruments	20	3.09	0.06	1.9	3.1	2.6 - 3.6	21	1.53	0.06	3.7	1.5	1.2 - 1.9
VITROS - CREA												
All Chemistry Instruments	15	3.17	0.09	2.8	3.2	2.6 - 3.7	15	1.49	0.06	4.0	1.5	1.1 - 1.8

Creatinine (mg/dL)

	Specimen CH-13						Specimen CH-14					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	129	2.55	0.11	4.2	2.6	2.1 - 3.0	133	4.43	0.30	6.7	4.4	3.7 - 5.1
All Alfa Wassermann Reagents	16	2.57	0.15	6.0	2.6	2.1 - 3.0	15	4.15	0.18	4.3	4.2	3.5 - 4.8
All Roche Reagents	21	2.47	0.11	4.6	2.5	2.1 - 2.9	21	4.16	0.21	5.1	4.1	3.5 - 4.8
All VITROS Reagents	18	2.63	0.09	3.4	2.6	2.2 - 3.1	18	4.86	0.13	2.7	4.9	4.1 - 5.6
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	2.6	2.1 - 3.0	3	-	-	-	4.5	3.7 - 5.1
All Chemistry Instruments	4	-	-	-	2.6	2.2 - 3.0	4	-	-	-	4.5	3.7 - 5.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	2.57	0.15	6.0	2.6	2.1 - 3.0	15	4.15	0.18	4.3	4.2	3.5 - 4.8
Beckman AU												
Beckman AU systems	22	2.55	0.07	2.9	2.6	2.1 - 3.0	22	4.48	0.15	3.3	4.5	3.8 - 5.2
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	2.48	0.19	7.6	2.5	2.1 - 2.9	17	4.24	0.19	4.4	4.3	3.6 - 4.9
Roche Integra												
Roche Integra	12	2.48	0.08	3.0	2.5	2.1 - 2.9	12	4.13	0.15	3.6	4.1	3.5 - 4.8
Siemens Healthcare												
Siemens Dimension	20	2.59	0.06	2.3	2.6	2.1 - 3.0	20	4.57	0.10	2.1	4.6	3.8 - 5.3
All Chemistry Instruments	21	2.59	0.06	2.2	2.6	2.1 - 3.0	21	4.58	0.10	2.2	4.6	3.8 - 5.3
VITROS - CREA												
All Chemistry Instruments	15	2.61	0.07	2.8	2.6	2.2 - 3.1	15	4.83	0.11	2.3	4.9	4.1 - 5.6

Creatinine (mg/dL)

Specimen CH-15

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	131	3.50	0.18	5.3	3.5	2.9 - 4.1
All Alfa Wassermann Reagents	16	3.44	0.23	6.6	3.4	2.9 - 4.0
All Roche Reagents	21	3.36	0.17	4.9	3.3	2.8 - 3.9
All VITROS Reagents	18	3.75	0.12	3.2	3.7	3.1 - 4.4
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	3.4	2.9 - 4.1
All Chemistry Instruments	4	-	-	-	3.4	2.9 - 4.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	3.44	0.23	6.6	3.4	2.9 - 4.0
Beckman AU						
Beckman AU systems	22	3.51	0.10	3.0	3.5	2.9 - 4.1
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	3.35	0.14	4.2	3.4	2.8 - 3.9
Roche Integra						
Roche Integra	12	3.33	0.11	3.2	3.3	2.8 - 3.9
Siemens Healthcare						
Siemens Dimension	19	3.58	0.07	1.9	3.6	3.0 - 4.2
All Chemistry Instruments	20	3.59	0.07	2.0	3.6	3.0 - 4.2
VITROS - CREA						
All Chemistry Instruments	15	3.73	0.10	2.8	3.7	3.1 - 4.3

Glucose (mg/dL)

	Specimen CH-11						Specimen CH-12					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	149	154.9	4.6	2.9	154	139 - 171	152	90.4	3.2	3.5	91	81 - 100
All Alfa Wassermann Reagents	17	159.8	3.8	2.4	159	143 - 176	16	95.1	1.7	1.8	95	85 - 105
All Horiba Pentra Reagents	17	154.0	4.8	3.1	153	138 - 170	17	88.9	3.2	3.6	89	79 - 98
All Roche Reagents	21	155.9	3.5	2.3	155	140 - 172	21	90.6	1.9	2.1	91	81 - 100
Abaxis Piccolo												
Abaxis Piccolo - waived	11	150.9	10.3	6.9	154	135 - 167	12	92.8	1.8	1.9	93	83 - 103
All Chemistry Instruments	14	153.9	1.6	1.0	154	138 - 170	16	92.9	2.0	2.1	93	83 - 103
Abbott Architect												
Abbott Architect	5	152.0	1.4	0.9	153	136 - 168	5	88.2	0.8	0.9	88	79 - 98
Alere Cholestech LDX												
Alere Cholestech LDX - waived	7	147.9	7.3	4.9	147	133 - 163	7	86.1	2.0	2.3	87	77 - 95
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	159.8	3.8	2.4	159	143 - 176	16	95.1	1.7	1.8	95	85 - 105
Beckman AU												
Beckman AU systems	22	153.8	3.3	2.1	154	138 - 170	22	89.6	1.9	2.2	90	80 - 99
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	154.0	4.8	3.1	153	138 - 170	17	88.9	3.2	3.6	89	79 - 98
Roche cobas c 501												
Roche cobas 6000 / c 501	8	154.8	3.9	2.5	155	139 - 171	8	90.1	2.1	2.3	91	81 - 100
Roche Integra												
Roche Integra	12	155.9	2.5	1.6	155	140 - 172	12	90.8	1.7	1.9	91	81 - 100
Siemens Healthcare												
Siemens Dimension	20	157.8	3.1	1.9	157	142 - 174	20	91.8	1.5	1.6	92	82 - 101
All Chemistry Instruments	21	157.5	3.3	2.1	157	141 - 174	21	91.6	1.7	1.8	92	82 - 101
VITROS												
VITROS 250,350,400 500,700,750,950	10	151.7	4.1	2.7	152	136 - 167	10	87.2	3.0	3.5	87	78 - 96
VITROS XT 3400	5	150.6	3.5	2.3	150	135 - 166	5	87.0	0.7	0.8	87	78 - 96
All Chemistry Instruments	18	151.4	3.9	2.6	152	136 - 167	18	87.3	2.6	2.9	87	78 - 97

Glucose (mg/dL)

	Specimen CH-13						Specimen CH-14					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	134	135.1	4.2	3.1	135	121 - 149	133	217.5	5.3	2.4	217	195 - 240
All Alfa Wassermann Reagents	17	140.6	2.7	1.9	140	126 - 155	17	223.0	4.6	2.1	221	200 - 246
All Horiba Pentra Reagents	17	133.8	4.3	3.2	134	120 - 148	17	215.6	8.4	3.9	215	194 - 238
All Roche Reagents	21	136.0	2.6	1.9	136	122 - 150	21	218.6	4.1	1.9	217	196 - 241
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	134	121 - 149	3	-	-	-	213	195 - 240
All Chemistry Instruments	4	-	-	-	136	121 - 149	4	-	-	-	213	191 - 235
Abbott Architect												
Abbott Architect	5	132.2	1.9	1.5	133	118 - 146	5	214.6	3.2	1.5	215	193 - 237
Alere Cholestech LDX												
Alere Cholestech LDX - waived	1	-	-	-	125	121 - 149	1	-	-	-	203	195 - 240
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	140.6	2.7	1.9	140	126 - 155	17	223.0	4.6	2.1	221	200 - 246
Beckman AU												
Beckman AU systems	22	133.5	2.7	2.0	133	120 - 147	22	215.1	4.2	2.0	215	193 - 237
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	133.8	4.3	3.2	134	120 - 148	17	215.6	8.4	3.9	215	194 - 238
Roche cobas c 501												
Roche cobas 6000 / c 501	8	134.5	2.3	1.7	135	121 - 148	8	218.1	4.2	1.9	219	196 - 240
Roche Integra												
Roche Integra	12	136.5	2.3	1.7	136	122 - 151	12	218.2	3.5	1.6	217	196 - 240
Siemens Healthcare												
Siemens Dimension	20	137.2	2.2	1.6	137	123 - 151	20	219.4	3.2	1.5	219	197 - 242
All Chemistry Instruments	21	136.9	2.6	1.9	137	123 - 151	21	218.9	3.9	1.8	219	196 - 241
VITROS												
VITROS 250,350,400 500,700,750,950	10	131.5	3.9	2.9	131	118 - 145	10	217.1	4.1	1.9	218	195 - 239
VITROS XT 3400	5	130.2	3.3	2.5	130	117 - 144	5	214.4	5.4	2.5	214	192 - 236
All Chemistry Instruments	18	131.3	3.5	2.6	131	118 - 145	18	216.4	4.7	2.2	218	194 - 239

Glucose (mg/dL)

Specimen CH-15

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	132	176.0	4.5	2.5	176	158 - 194
All Alfa Wassermann Reagents	17	181.0	4.3	2.4	180	162 - 200
All Horiba Pentra Reagents	17	175.4	6.1	3.5	176	157 - 193
All Roche Reagents	21	177.0	3.3	1.9	177	159 - 195
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	173	158 - 194
All Chemistry Instruments	4	-	-	-	174	155 - 191
Abbott Architect						
Abbott Architect	5	173.2	2.2	1.3	174	155 - 191
Alere Cholestech LDX						
Alere Cholestech LDX - waived	1	-	-	-	166	158 - 194
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	17	181.0	4.3	2.4	180	162 - 200
Beckman AU						
Beckman AU systems	22	173.6	3.0	1.7	174	156 - 191
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	175.4	6.1	3.5	176	157 - 193
Roche cobas c 501						
Roche cobas 6000 / c 501	8	176.6	3.8	2.1	177	158 - 195
Roche Integra						
Roche Integra	12	176.8	3.0	1.7	177	159 - 195
Siemens Healthcare						
Siemens Dimension	20	178.2	2.5	1.4	179	160 - 196
All Chemistry Instruments	21	177.8	3.0	1.7	178	159 - 196
VITROS						
VITROS 250,350,400 500,700,750,950	10	173.2	5.6	3.2	173	155 - 191
VITROS XT 3400	5	171.6	4.1	2.4	173	154 - 189
All Chemistry Instruments	18	172.9	5.1	2.9	173	155 - 191

Iron (µg/dL)

Reagent/Instrument	Specimen CH-11 Labs	Mean	SD	CV	Median	Range	Specimen CH-12 Labs	Mean	SD	CV	Median	Range
All Method	64	132.4	9.5	7.2	130	105 - 159	62	70.0	4.4	6.3	69	55 - 84
All Roche Reagents	9	132.4	5.5	4.1	132	105 - 159	9	70.9	3.6	5.1	70	56 - 86
Beckman AU												
Beckman AU systems	15	144.7	2.3	1.6	145	115 - 174	15	75.6	1.8	2.4	75	60 - 91
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	9	122.9	5.8	4.7	125	98 - 148	9	65.2	4.9	7.5	66	52 - 79
Roche cobas c 501												
Roche cobas 6000 / c 501	5	133.2	5.4	4.0	132	106 - 160	5	71.4	2.8	3.9	70	57 - 86
Siemens Healthcare												
Siemens Dimension	12	124.5	1.8	1.5	125	99 - 150	12	66.6	1.3	2.0	67	53 - 80
VITROS												
All Chemistry Instruments	6	137.3	9.7	7.1	136	109 - 165	6	71.7	7.6	10.7	70	57 - 87

Reagent/Instrument	Specimen CH-13 Labs	Mean	SD	CV	Median	Range	Specimen CH-14 Labs	Mean	SD	CV	Median	Range
All Method	64	112.9	8.2	7.3	111	90 - 136	64	193.6	15.7	8.1	189	154 - 233
All Roche Reagents	9	112.6	3.9	3.5	113	90 - 136	9	189.4	5.5	2.9	190	151 - 228
Beckman AU												
Beckman AU systems	15	122.9	2.8	2.3	122	98 - 148	15	212.4	4.3	2.0	212	169 - 255
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	9	104.8	6.0	5.7	107	83 - 126	9	179.6	5.5	3.1	176	143 - 216
Roche cobas c 501												
Roche cobas 6000 / c 501	5	113.6	3.3	2.9	113	90 - 137	5	189.8	4.4	2.3	190	151 - 228
Siemens Healthcare												
Siemens Dimension	12	106.4	1.7	1.6	106	85 - 128	12	179.8	2.7	1.5	179	143 - 216
VITROS												
All Chemistry Instruments	6	120.0	9.8	8.2	121	96 - 144	6	214.7	17.0	7.9	213	171 - 258

Reagent/Instrument	Specimen CH-15 Labs	Mean	SD	CV	Median	Range
All Method	64	152.7	10.9	7.1	150	122 - 184
All Roche Reagents	9	151.4	4.8	3.2	153	121 - 182
Beckman AU						
Beckman AU systems	15	167.3	3.0	1.8	168	133 - 201
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	9	142.3	4.8	3.4	144	113 - 171
Roche cobas c 501						
Roche cobas 6000 / c 501	5	152.2	2.6	1.7	153	121 - 183
Siemens Healthcare						
Siemens Dimension	12	142.9	2.3	1.6	142	114 - 172
VITROS						
All Chemistry Instruments	6	160.3	11.1	6.9	158	128 - 193

Lactate (Lactic Acid) (mmol/L)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	3.80	0.01	0.0	3.8	3.4 - 4.2	5	1.60	0.01	0.0	1.6	1.2 - 2.0
	Specimen CH-13						**Specimen CH-14**					
All Method	5	3.05	0.07	2.3	3.1	2.6 - 3.5	5	5.80	0.01	0.0	5.8	5.4 - 6.2
	Specimen CH-15											
All Method	5	4.40	0.14	3.2	4.4	3.9 - 4.9						

Magnesium (mg/dL)

Reagent/Instrument	Specimen CH-11 Labs	Mean	SD	CV	Median	Range	Specimen CH-12 Labs	Mean	SD	CV	Median	Range
All Method	77	3.13	0.15	4.8	3.1	2.3 - 4.0	79	2.05	0.13	6.2	2.0	1.5 - 2.6
All Horiba Pentra Reagents	14	2.98	0.21	7.0	3.1	2.2 - 3.8	14	1.96	0.24	12.3	2.0	1.4 - 2.5
All Roche Reagents	18	3.05	0.06	2.0	3.1	2.2 - 3.9	18	2.00	0.07	3.4	2.0	1.5 - 2.5
Beckman AU												
Beckman AU systems	13	3.13	0.08	2.4	3.1	2.3 - 4.0	13	2.05	0.05	2.5	2.0	1.5 - 2.6
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	2.98	0.21	7.0	3.1	2.2 - 3.8	14	1.96	0.24	12.3	2.0	1.4 - 2.5
Roche Integra												
Roche Integra	10	3.05	0.05	1.7	3.1	2.2 - 3.9	10	2.00	0.08	4.1	2.0	1.5 - 2.5
Siemens Healthcare												
Siemens Dimension	13	3.15	0.14	4.4	3.2	2.3 - 4.0	13	2.03	0.08	3.7	2.0	1.5 - 2.6

Reagent/Instrument	Specimen CH-13 Labs	Mean	SD	CV	Median	Range	Specimen CH-14 Labs	Mean	SD	CV	Median	Range
All Method	80	2.80	0.16	5.6	2.8	2.1 - 3.6	79	4.19	0.23	5.4	4.2	3.1 - 5.3
All Horiba Pentra Reagents	14	2.69	0.18	6.6	2.7	2.0 - 3.4	14	3.92	0.23	5.8	4.0	2.9 - 5.0
All Roche Reagents	18	2.75	0.06	2.2	2.8	2.0 - 3.5	18	4.09	0.08	2.0	4.1	3.0 - 5.2
Beckman AU												
Beckman AU systems	13	2.80	0.07	2.5	2.8	2.1 - 3.5	13	4.18	0.11	2.6	4.1	3.1 - 5.3
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	2.69	0.18	6.6	2.7	2.0 - 3.4	14	3.92	0.23	5.8	4.0	2.9 - 5.0
Roche Integra												
Roche Integra	10	2.77	0.05	1.7	2.8	2.0 - 3.5	10	4.06	0.08	2.1	4.1	3.0 - 5.1
Siemens Healthcare												
Siemens Dimension	13	2.84	0.10	3.4	2.8	2.1 - 3.6	13	4.25	0.14	3.3	4.3	3.1 - 5.4

Reagent/Instrument	Specimen CH-15 Labs	Mean	SD	CV	Median	Range
All Method	78	3.47	0.18	5.2	3.5	2.6 - 4.4
All Horiba Pentra Reagents	14	3.25	0.20	6.2	3.3	2.4 - 4.1
All Roche Reagents	18	3.42	0.06	1.8	3.4	2.5 - 4.3
Beckman AU						
Beckman AU systems	13	3.50	0.09	2.6	3.5	2.6 - 4.4
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	14	3.25	0.20	6.2	3.3	2.4 - 4.1
Roche Integra						
Roche Integra	10	3.43	0.07	2.0	3.4	2.5 - 4.3
Siemens Healthcare						
Siemens Dimension	13	3.51	0.10	2.7	3.5	2.6 - 4.4

Phosphorus (mg/dL)

	Specimen CH-11						Specimen CH-12					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	55	3.67	0.22	5.9	3.6	3.3 - 4.1	55	2.38	0.15	6.5	2.4	2.0 - 2.7
All Roche Reagents	15	3.51	0.12	3.5	3.5	3.1 - 3.9	15	2.27	0.09	4.0	2.2	1.9 - 2.6
Beckman AU												
Beckman AU systems	7	3.60	0.08	2.3	3.6	3.2 - 4.0	7	2.27	0.08	3.3	2.3	1.9 - 2.6
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	8	4.05	0.11	2.6	4.1	3.6 - 4.5	8	2.59	0.10	3.8	2.6	2.2 - 2.9
Roche cobas c 501												
Roche cobas 6000 / c 501	5	3.54	0.13	3.8	3.6	3.1 - 3.9	5	2.30	0.07	3.1	2.3	2.0 - 2.6
Roche Integra												
Roche Integra	9	3.48	0.12	3.5	3.5	3.1 - 3.9	9	2.24	0.10	4.5	2.2	1.9 - 2.6
Siemens Healthcare												
Siemens Dimension	9	3.86	0.25	6.5	3.8	3.4 - 4.3	9	2.51	0.27	10.8	2.4	2.2 - 2.9
VITROS												
VITROS 250,350,400 500,700,750,950	5	3.72	0.13	3.5	3.7	3.3 - 4.1	5	2.56	0.11	4.5	2.6	2.2 - 2.9
All Chemistry Instruments	8	3.69	0.11	3.1	3.7	3.3 - 4.1	8	2.54	0.09	3.6	2.5	2.2 - 2.9

	Specimen CH-13						Specimen CH-14					
All Method	55	3.26	0.20	6.2	3.2	2.9 - 3.6	55	4.88	0.27	5.6	4.9	4.3 - 5.4
All Roche Reagents	15	3.11	0.10	3.2	3.1	2.8 - 3.5	15	4.73	0.15	3.2	4.7	4.2 - 5.2
Beckman AU												
Beckman AU systems	7	3.17	0.10	3.0	3.1	2.8 - 3.5	7	4.79	0.11	2.2	4.8	4.3 - 5.3
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	8	3.63	0.09	2.4	3.6	3.2 - 4.0	8	5.36	0.15	2.8	5.3	4.8 - 5.9
Roche cobas c 501												
Roche cobas 6000 / c 501	5	3.14	0.09	2.8	3.2	2.8 - 3.5	5	4.76	0.11	2.4	4.8	4.2 - 5.3
Roche Integra												
Roche Integra	9	3.09	0.11	3.4	3.1	2.7 - 3.4	9	4.69	0.17	3.6	4.7	4.2 - 5.2
Siemens Healthcare												
Siemens Dimension	9	3.39	0.28	8.1	3.3	3.0 - 3.8	9	5.08	0.29	5.6	5.0	4.5 - 5.6
VITROS												
VITROS 250,350,400 500,700,750,950	5	3.38	0.13	3.9	3.4	3.0 - 3.8	5	4.94	0.15	3.1	4.9	4.4 - 5.5
All Chemistry Instruments	8	3.35	0.11	3.2	3.3	3.0 - 3.7	8	4.88	0.15	3.1	4.9	4.3 - 5.4

Phosphorus (mg/dL) cont'd

Specimen CH-15

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	55	4.05	0.24	5.9	4.0	3.6 - 4.5
All Roche Reagents	15	3.91	0.12	3.2	3.9	3.5 - 4.4
Beckman AU						
Beckman AU systems	7	3.97	0.08	1.9	4.0	3.5 - 4.4
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	8	4.49	0.16	3.5	4.5	4.0 - 5.0
Roche cobas c 501						
Roche cobas 6000 / c 501	5	3.94	0.09	2.3	4.0	3.5 - 4.4
Roche Integra						
Roche Integra	9	3.89	0.15	3.7	3.9	3.5 - 4.3
Siemens Healthcare						
Siemens Dimension	9	4.21	0.27	6.3	4.1	3.7 - 4.7
VITROS						
VITROS 250,350,400 500,700,750,950	5	4.12	0.19	4.7	4.1	3.7 - 4.6
All Chemistry Instruments	8	4.08	0.16	3.9	4.0	3.6 - 4.5

Protein, Total (g/dL)

	Specimen CH-11						Specimen CH-12					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	142	5.49	0.18	3.3	5.5	4.9 - 6.1	141	3.72	0.13	3.4	3.7	3.3 - 4.1
All Alfa Wassermann Reagents	16	5.66	0.15	2.6	5.7	5.0 - 6.3	16	3.79	0.13	3.3	3.8	3.4 - 4.2
All Horiba Pentra Reagents	17	5.56	0.20	3.5	5.6	5.0 - 6.2	17	3.71	0.12	3.4	3.7	3.3 - 4.1
All Roche Reagents	21	5.36	0.18	3.3	5.3	4.8 - 5.9	21	3.63	0.12	3.4	3.6	3.2 - 4.0
Abaxis Piccolo												
Abaxis Piccolo - waived	12	5.52	0.13	2.4	5.5	4.9 - 6.1	11	3.89	0.10	2.7	3.9	3.5 - 4.3
All Chemistry Instruments	16	5.50	0.13	2.3	5.5	4.9 - 6.1	15	3.87	0.10	2.7	3.9	3.4 - 4.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	5.66	0.15	2.6	5.7	5.0 - 6.3	16	3.79	0.13	3.3	3.8	3.4 - 4.2
Beckman AU												
Beckman AU systems	22	5.42	0.10	1.9	5.4	4.8 - 6.0	22	3.65	0.07	1.8	3.6	3.2 - 4.1
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	5.56	0.20	3.5	5.6	5.0 - 6.2	17	3.71	0.12	3.4	3.7	3.3 - 4.1
Roche Integra												
Roche Integra	12	5.28	0.15	2.8	5.2	4.7 - 5.9	12	3.58	0.11	3.0	3.6	3.2 - 4.0
Siemens Healthcare												
Siemens Dimension	19	5.62	0.10	1.7	5.6	5.0 - 6.2	19	3.77	0.07	1.9	3.8	3.3 - 4.2
VITROS												
VITROS 250,350,400 500,700,750,950	10	5.38	0.13	2.4	5.4	4.8 - 6.0	10	3.75	0.07	1.9	3.7	3.3 - 4.2
All Chemistry Instruments	18	5.36	0.13	2.4	5.4	4.8 - 5.9	18	3.72	0.08	2.2	3.7	3.3 - 4.1

Protein, Total (g/dL)

	Specimen CH-13						Specimen CH-14					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	130	4.94	0.16	3.1	4.9	4.4 - 5.5	130	7.17	0.25	3.5	7.2	6.4 - 7.9
All Alfa Wassermann Reagents	16	5.06	0.16	3.2	5.1	4.5 - 5.6	16	7.39	0.20	2.7	7.4	6.6 - 8.2
All Horiba Pentra Reagents	17	4.96	0.16	3.2	5.0	4.4 - 5.5	17	7.19	0.21	2.9	7.2	6.4 - 8.0
All Roche Reagents	21	4.84	0.16	3.4	4.8	4.3 - 5.4	21	7.01	0.24	3.4	6.9	6.3 - 7.8
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	5.0	4.4 - 5.5	3	-	-	-	7.2	6.4 - 7.9
All Chemistry Instruments	4	-	-	-	5.1	4.5 - 5.6	4	-	-	-	7.2	6.4 - 7.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	5.06	0.16	3.2	5.1	4.5 - 5.6	16	7.39	0.20	2.7	7.4	6.6 - 8.2
Beckman AU												
Beckman AU systems	22	4.86	0.07	1.4	4.9	4.3 - 5.4	22	7.10	0.13	1.8	7.1	6.3 - 7.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	4.96	0.16	3.2	5.0	4.4 - 5.5	17	7.19	0.21	2.9	7.2	6.4 - 8.0
Roche Integra												
Roche Integra	12	4.78	0.14	3.0	4.7	4.2 - 5.3	12	6.90	0.20	3.0	6.9	6.2 - 7.6
Siemens Healthcare												
Siemens Dimension	19	5.06	0.10	1.9	5.1	4.5 - 5.6	19	7.42	0.13	1.7	7.4	6.6 - 8.2
VITROS												
VITROS 250,350,400 500,700,750,950	10	4.89	0.11	2.3	4.9	4.4 - 5.4	10	6.94	0.19	2.7	7.0	6.2 - 7.7
All Chemistry Instruments	18	4.87	0.11	2.3	4.9	4.3 - 5.4	18	6.91	0.16	2.3	6.9	6.2 - 7.7

Protein, Total (g/dL)

Specimen CH-15

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	130	6.05	0.22	3.6	6.1	5.4 - 6.7
All Alfa Wassermann Reagents	16	6.23	0.23	3.7	6.3	5.6 - 6.9
All Horiba Pentra Reagents	17	6.06	0.19	3.2	6.1	5.4 - 6.7
All Roche Reagents	21	5.91	0.20	3.4	5.9	5.3 - 6.6
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	6.1	5.4 - 6.7
All Chemistry Instruments	4	-	-	-	6.1	5.4 - 6.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	6.23	0.23	3.7	6.3	5.6 - 6.9
Beckman AU						
Beckman AU systems	22	5.97	0.11	1.9	6.0	5.3 - 6.6
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	6.06	0.19	3.2	6.1	5.4 - 6.7
Roche Integra						
Roche Integra	12	5.83	0.18	3.0	5.8	5.2 - 6.5
Siemens Healthcare						
Siemens Dimension	19	6.28	0.14	2.2	6.3	5.6 - 7.0
VITROS						
VITROS 250,350,400 500,700,750,950	10	5.96	0.16	2.6	6.0	5.3 - 6.6
All Chemistry Instruments	18	5.92	0.15	2.5	5.9	5.3 - 6.6

Urea Nitrogen (mg/dL)

	Specimen CH-11						Specimen CH-12					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	144	25.6	2.0	7.7	26	23 - 28	143	13.7	1.1	7.9	14	11 - 16
All Alfa Wassermann Reagents	16	26.3	1.1	4.1	26	23 - 29	16	14.1	0.6	4.4	14	12 - 17
All Horiba Pentra Reagents	17	24.7	1.2	4.9	25	22 - 27	17	13.2	0.6	4.8	13	11 - 16
All Roche Reagents	21	26.0	1.2	4.5	26	23 - 29	21	13.8	0.6	4.5	14	11 - 16
Abaxis Piccolo												
Abaxis Piccolo - waived	12	24.7	0.5	2.0	25	22 - 27	11	13.8	0.4	2.9	14	11 - 16
All Chemistry Instruments	16	24.7	0.5	1.9	25	22 - 27	15	13.9	0.4	2.5	14	11 - 16
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	26.3	1.1	4.1	26	23 - 29	16	14.1	0.6	4.4	14	12 - 17
Beckman AU												
Beckman AU systems	22	27.2	0.9	3.3	27	24 - 30	22	14.4	0.7	5.1	15	12 - 17
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	24.7	1.2	4.9	25	22 - 27	17	13.2	0.6	4.8	13	11 - 16
Roche Integra												
Roche Integra	12	26.2	1.1	4.3	26	23 - 29	12	13.8	0.6	4.5	14	11 - 16
Siemens Healthcare												
Siemens Dimension	20	27.4	0.7	2.5	28	24 - 30	20	14.2	0.8	5.4	14	12 - 17
All Chemistry Instruments	21	27.4	0.7	2.4	27	24 - 30	21	14.1	0.8	5.6	14	12 - 17
VITROS												
VITROS 250,350,400 500,700,750,950	10	21.7	0.5	2.2	22	19 - 24	10	11.8	0.6	5.4	12	9 - 14
All Chemistry Instruments	18	21.7	0.5	2.2	22	19 - 24	18	11.6	0.6	5.2	12	9 - 14

Urea Nitrogen (mg/dL)

	Specimen CH-13						Specimen CH-14					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	132	22.1	1.8	8.0	22	20 - 25	132	37.4	2.8	7.5	38	34 - 41
All Alfa Wassermann Reagents	16	22.5	1.2	5.4	23	20 - 25	16	37.9	1.7	4.5	38	34 - 42
All Horiba Pentra Reagents	17	21.3	1.3	5.9	21	19 - 24	17	35.6	1.7	4.6	36	32 - 39
All Roche Reagents	21	22.3	0.9	4.1	22	20 - 25	21	37.9	1.7	4.4	38	34 - 42
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	21	20 - 25	3	-	-	-	36	34 - 41
All Chemistry Instruments	4	-	-	-	21	19 - 23	4	-	-	-	36	32 - 40
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	22.5	1.2	5.4	23	20 - 25	16	37.9	1.7	4.5	38	34 - 42
Beckman AU												
Beckman AU systems	22	23.5	0.8	3.4	24	21 - 26	22	39.7	1.0	2.5	40	36 - 44
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	21.3	1.3	5.9	21	19 - 24	17	35.6	1.7	4.6	36	32 - 39
Roche Integra												
Roche Integra	12	22.3	0.9	3.9	22	20 - 25	12	38.0	1.7	4.3	38	34 - 42
Siemens Healthcare												
Siemens Dimension	20	23.4	0.6	2.6	23	21 - 26	20	39.6	0.9	2.4	40	35 - 44
All Chemistry Instruments	21	23.3	0.7	2.8	23	21 - 26	21	39.5	1.0	2.5	40	35 - 44
VITROS												
VITROS 250,350,400 500,700,750,950	10	18.8	0.4	2.2	19	16 - 21	10	32.1	0.9	2.7	32	29 - 35
All Chemistry Instruments	18	18.7	0.5	2.5	19	16 - 21	18	32.0	0.8	2.4	32	29 - 35

Urea Nitrogen (mg/dL)

Specimen CH-15

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	132	29.5	2.3	7.7	30	26 - 33
All Alfa Wassermann Reagents	16	30.5	1.4	4.5	31	27 - 34
All Horiba Pentra Reagents	17	28.2	1.1	4.0	28	25 - 31
All Roche Reagents	21	29.8	1.3	4.3	30	27 - 33
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	28	26 - 33
All Chemistry Instruments	4	-	-	-	28	25 - 31
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	30.5	1.4	4.5	31	27 - 34
Beckman AU						
Beckman AU systems	22	31.3	0.8	2.6	31	28 - 35
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	28.2	1.1	4.0	28	25 - 31
Roche Integra						
Roche Integra	12	30.0	1.1	3.8	30	27 - 33
Siemens Healthcare						
Siemens Dimension	20	31.2	0.9	2.8	31	28 - 34
All Chemistry Instruments	21	31.0	1.0	3.1	31	28 - 34
VITROS						
VITROS 250,350,400 500,700,750,950	10	25.1	0.6	2.3	25	22 - 28
All Chemistry Instruments	18	25.1	0.5	2.2	25	22 - 28

Uric Acid (mg/dL)

Reagent/Instrument	Specimen CH-11 Labs	Mean	SD	CV	Median	Range	Specimen CH-12 Labs	Mean	SD	CV	Median	Range
All Method	89	6.78	0.28	4.1	6.8	5.6 - 8.0	86	3.71	0.17	4.6	3.7	3.0 - 4.4
All Roche Reagents	17	6.72	0.26	3.8	6.7	5.5 - 7.9	17	3.62	0.13	3.5	3.6	3.0 - 4.3
Beckman AU												
Beckman AU systems	13	6.88	0.18	2.6	6.9	5.7 - 8.1	13	3.74	0.12	3.2	3.7	3.1 - 4.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	6.68	0.17	2.6	6.7	5.5 - 7.9	13	3.63	0.09	2.4	3.7	3.0 - 4.3
Roche Integra												
Roche Integra	11	6.85	0.16	2.3	6.8	5.6 - 8.1	11	3.67	0.11	3.0	3.7	3.0 - 4.3
Siemens Healthcare												
Siemens Dimension	15	6.66	0.18	2.7	6.7	5.5 - 7.8	15	3.65	0.08	2.3	3.6	3.0 - 4.3
All Chemistry Instruments	16	6.68	0.18	2.8	6.7	5.5 - 7.9	16	3.66	0.09	2.4	3.7	3.0 - 4.3
VITROS												
All Chemistry Instruments	10	6.74	0.11	1.6	6.7	5.5 - 7.9	10	3.62	0.08	2.2	3.6	3.0 - 4.3

Reagent/Instrument	Specimen CH-13 Labs	Mean	SD	CV	Median	Range	Specimen CH-14 Labs	Mean	SD	CV	Median	Range
All Method	89	5.83	0.23	4.0	5.8	4.8 - 6.9	87	9.76	0.38	3.9	9.7	8.1 - 11.5
All Roche Reagents	17	5.76	0.23	4.0	5.8	4.7 - 6.8	17	9.67	0.36	3.7	9.8	8.0 - 11.4
Beckman AU												
Beckman AU systems	13	5.89	0.17	2.9	5.9	4.8 - 6.9	13	9.91	0.35	3.6	9.9	8.2 - 11.6
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	5.72	0.16	2.9	5.7	4.7 - 6.7	13	9.58	0.19	2.0	9.6	7.9 - 11.3
Roche Integra												
Roche Integra	11	5.87	0.13	2.3	5.8	4.8 - 6.9	11	9.85	0.23	2.3	9.8	8.1 - 11.6
Siemens Healthcare												
Siemens Dimension	15	5.77	0.15	2.6	5.8	4.7 - 6.8	15	9.63	0.19	2.0	9.6	7.9 - 11.3
All Chemistry Instruments	16	5.79	0.15	2.7	5.8	4.8 - 6.8	16	9.66	0.22	2.3	9.6	8.0 - 11.3
VITROS												
All Chemistry Instruments	10	5.77	0.12	2.0	5.8	4.7 - 6.8	10	9.79	0.15	1.6	9.8	8.1 - 11.5

Uric Acid (mg/dL)

Specimen CH-15

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	88	7.76	0.32	4.1	7.7	6.4 - 9.1
All Roche Reagents	17	7.69	0.26	3.4	7.7	6.3 - 9.1
Beckman AU						
Beckman AU systems	13	7.88	0.21	2.7	7.9	6.5 - 9.3
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	13	7.68	0.20	2.6	7.7	6.3 - 9.0
Roche Integra						
Roche Integra	11	7.84	0.16	2.1	7.8	6.5 - 9.2
Siemens Healthcare						
Siemens Dimension	15	7.65	0.24	3.1	7.6	6.3 - 9.0
All Chemistry Instruments	16	7.67	0.24	3.2	7.6	6.3 - 9.0
VITROS						
All Chemistry Instruments	10	7.76	0.13	1.7	7.8	6.4 - 9.1

Chloride (mmol/L)

Method/Instrument	Specimen CH-11 Labs	Mean	SD	CV	Median	Range	Specimen CH-12 Labs	Mean	SD	CV	Median	Range
All Method	141	105.9	2.6	2.4	106	100 - 112	140	96.7	2.4	2.5	96	91 - 102
Abaxis Piccolo												
Abaxis Piccolo - waived	12	108.9	2.0	1.9	109	103 - 115	12	101.0	2.0	2.0	101	95 - 107
Abaxis Piccolo	5	108.3	2.1	1.9	109	102 - 114	5	100.5	1.3	1.3	101	95 - 106
All Chemistry Instruments	17	108.8	2.0	1.8	109	103 - 115	17	100.9	1.8	1.8	101	95 - 106
ISE Diluted												
Beckman AU systems	21	104.1	0.6	0.6	104	98 - 110	22	96.1	0.7	0.7	96	91 - 101
Roche cobas 6000 / c 501	8	103.1	1.4	1.3	103	97 - 109	8	94.3	1.0	1.1	95	89 - 99
Roche Integra	12	108.3	2.5	2.3	108	102 - 114	12	98.7	1.9	1.9	99	93 - 104
Siemens Dimension QuickLyte - Xpand/EXL	16	106.9	1.5	1.4	107	101 - 113	16	96.5	1.2	1.2	96	91 - 102
All Chemistry Instruments	72	105.8	2.3	2.2	105	100 - 112	72	96.6	1.7	1.8	96	91 - 102
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	15	107.1	1.4	1.3	107	101 - 113	15	96.0	1.0	1.0	96	91 - 101
Horiba ABX Pentra 400 / C400	14	103.6	3.0	2.9	103	98 - 109	13	93.5	1.8	1.9	93	88 - 99
All Chemistry Instruments	35	105.5	2.8	2.6	106	100 - 111	34	95.2	1.9	2.0	96	90 - 100
VITROS												
VITROS 250,350,400 500,700,750,950	10	104.4	1.8	1.8	105	99 - 110	10	96.3	1.4	1.5	97	91 - 102
VITROS XT 3400	5	105.6	1.5	1.4	106	100 - 111	5	97.2	1.5	1.5	97	92 - 103
All Chemistry Instruments	18	104.7	1.7	1.7	105	99 - 110	18	96.4	1.6	1.6	97	91 - 102

Method/Instrument	Specimen CH-13 Labs	Mean	SD	CV	Median	Range	Specimen CH-14 Labs	Mean	SD	CV	Median	Range
All Method	127	102.5	2.0	2.0	102	97 - 108	127	114.9	3.3	2.8	114	109 - 121
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	105	99 - 110	3	-	-	-	118	110 - 123
Abaxis Piccolo	1	-	-	-	103	99 - 110	1	-	-	-	114	110 - 123
All Chemistry Instruments	4	104.5	1.3	1.2	105	99 - 110	4	116.5	3.0	2.6	116	110 - 123
ISE Diluted												
Beckman AU systems	22	101.7	0.8	0.8	102	96 - 107	22	112.3	0.8	0.7	112	106 - 118
Roche cobas 6000 / c 501	8	101.0	1.1	1.1	101	95 - 107	8	114.1	1.6	1.4	114	108 - 120
Roche Integra	12	105.0	2.7	2.5	104	99 - 111	12	118.8	4.5	3.8	118	112 - 125
Siemens Dimension QuickLyte - Xpand/EXL	16	103.4	1.5	1.4	104	98 - 109	16	116.8	1.5	1.3	117	110 - 123
All Chemistry Instruments	70	102.7	1.8	1.7	103	97 - 108	70	114.9	2.8	2.4	115	109 - 121
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	15	103.0	1.5	1.5	103	97 - 109	15	117.5	2.2	1.9	116	111 - 124
Horiba ABX Pentra 400 / C400	14	99.7	2.6	2.6	100	94 - 105	14	113.5	4.7	4.2	113	107 - 120
All Chemistry Instruments	35	101.7	2.6	2.5	102	96 - 107	35	115.3	4.1	3.6	116	109 - 122
VITROS												
VITROS 250,350,400 500,700,750,950	10	101.8	1.8	1.7	102	96 - 107	9	113.3	1.9	1.7	114	107 - 119
VITROS XT 3400	5	102.8	0.8	0.8	103	97 - 108	5	114.4	1.1	1.0	114	108 - 121
All Chemistry Instruments	18	101.9	1.6	1.6	102	96 - 108	17	113.4	1.8	1.6	114	107 - 120

Chloride (mmol/L)

Specimen CH-15

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	127	108.9	2.8	2.5	109	103 - 115
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	112	105 - 117
Abaxis Piccolo	1	-	-	-	108	105 - 117
All Chemistry Instruments	4	111.0	2.2	1.9	112	105 - 117
ISE Diluted						
Beckman AU systems	22	107.1	0.9	0.8	107	101 - 113
Roche cobas 6000 / c 501	8	107.8	1.5	1.4	108	102 - 114
Roche Integra	12	112.3	3.9	3.4	111	106 - 118
Siemens Dimension QuickLyte - Xpand/EXL	16	110.2	1.4	1.3	110	104 - 116
All Chemistry Instruments	70	109.0	2.4	2.2	109	103 - 115
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	15	111.1	2.0	1.8	110	105 - 117
Horiba ABX Pentra 400 / C400	15	108.3	6.5	6.0	106	102 - 114
All Chemistry Instruments	35	109.0	3.6	3.3	110	103 - 115
VITROS						
VITROS 250,350,400 500,700,750,950	10	107.5	2.1	1.9	108	102 - 113
VITROS XT 3400	5	108.8	0.8	0.8	109	103 - 115
All Chemistry Instruments	18	107.7	1.9	1.8	108	102 - 114

CO_2 (mmol/L)

	Specimen CH-11						Specimen CH-12					
Method/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	133	25.6	2.6	10.1	26	20 - 31	132	20.0	2.1	10.7	20	16 - 24
Abaxis Piccolo												
Abaxis Piccolo - waived	12	25.9	1.4	5.3	26	20 - 32	12	20.5	0.7	3.4	21	16 - 25
Abaxis Piccolo	5	25.3	1.0	3.8	26	20 - 31	5	20.8	1.0	4.6	21	16 - 25
All Chemistry Instruments	17	25.7	1.3	5.0	26	20 - 31	17	20.5	0.7	3.6	21	16 - 25
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	9	26.8	2.9	10.9	26	21 - 33	9	20.7	2.9	14.1	20	16 - 25
Beckman AU systems	18	27.0	2.0	7.4	27	21 - 33	18	21.2	1.4	6.5	21	16 - 26
Horiba ABX Pentra 400 / C400	13	24.5	2.5	10.4	24	19 - 30	13	19.0	2.2	11.4	19	15 - 23
Roche cobas 6000 / c 501	6	24.2	1.3	5.5	25	19 - 30	6	19.2	1.3	6.9	20	15 - 24
Roche Integra	11	24.5	1.9	7.6	25	19 - 30	11	19.3	2.0	10.4	19	15 - 24
Siemens Dimension	16	27.9	2.2	7.7	28	22 - 34	16	22.1	2.4	10.8	22	17 - 27
All Chemistry Instruments	81	26.1	2.7	10.2	26	20 - 32	80	20.4	2.2	10.9	21	16 - 25
ISE Diluted												
All Chemistry Instruments	10	25.4	2.6	10.4	25	20 - 31	10	19.6	1.6	8.4	20	15 - 24
ISE Undiluted												
All Chemistry Instruments	9	25.6	2.8	11.1	25	20 - 31	9	19.9	2.6	12.9	19	15 - 24
VITROS												
VITROS 250,350,400 500,700,750,950	10	24.7	1.8	7.2	25	19 - 30	10	18.6	2.0	10.8	20	14 - 23
VITROS XT 3400	5	22.0	2.7	12.4	22	17 - 27	5	17.6	2.1	11.8	18	14 - 22
All Chemistry Instruments	18	23.8	2.2	9.4	24	19 - 29	18	18.3	1.9	10.2	19	14 - 22

CO_2 (mmol/L)

	Specimen CH-13						Specimen CH-14					
All Method	122	23.9	2.8	11.7	24	19 - 29	122	30.7	3.3	10.8	31	24 - 37
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	25	19 - 29	3	-	-	-	31	24 - 38
Abaxis Piccolo	1	-	-	-	23	19 - 29	1	-	-	-	32	24 - 38
All Chemistry Instruments	4	24.0	1.2	4.8	24	19 - 29	4	31.0	1.4	4.6	32	24 - 38
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	9	24.7	3.7	15.2	24	19 - 30	9	31.7	3.7	11.8	32	25 - 39
Beckman AU systems	18	25.1	1.8	7.3	26	20 - 31	18	33.1	2.1	6.4	33	26 - 40
Horiba ABX Pentra 400 / C400	13	22.8	2.3	10.2	23	18 - 28	13	28.5	3.1	11.0	28	22 - 35
Roche cobas 6000 / c 501	6	22.5	1.9	8.3	23	18 - 27	6	29.3	2.9	9.8	31	23 - 36
Roche Integra	11	22.5	2.4	10.7	22	18 - 28	11	29.0	2.6	9.0	29	23 - 35
Siemens Dimension	16	26.1	2.4	9.2	26	20 - 32	16	33.4	2.3	6.8	34	26 - 41
All Chemistry Instruments	81	24.2	2.8	11.6	24	19 - 30	81	31.2	3.4	10.8	32	24 - 38
ISE Diluted												
All Chemistry Instruments	10	24.1	2.9	12.1	23	19 - 29	10	30.7	3.3	10.6	30	24 - 37
ISE Undiluted												
All Chemistry Instruments	9	24.2	2.9	12.2	23	19 - 30	9	30.4	3.2	10.5	30	24 - 37
VITROS												
VITROS 250,350,400 500,700,750,950	10	22.7	1.7	7.5	23	18 - 28	10	28.4	2.4	8.3	28	22 - 35
VITROS XT 3400	5	21.0	3.2	15.1	21	16 - 26	5	27.6	3.9	14.2	29	22 - 34
All Chemistry Instruments	18	22.1	2.2	10.1	23	17 - 27	18	28.3	2.7	9.5	29	22 - 34

CO_2 (mmol/L)

Specimen CH-15

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	122	27.2	3.2	11.7	27	21 - 33
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	28	22 - 34
Abaxis Piccolo	1	-	-	-	28	22 - 34
All Chemistry Instruments	4	27.8	0.5	1.8	28	22 - 34
Enzymatic Reagent						
Alfa Wassermann ACE Alera/Axcel	9	29.7	3.7	12.6	31	23 - 36
Beckman AU systems	18	29.1	2.1	7.3	29	23 - 35
Horiba ABX Pentra 400 / C400	13	25.3	2.4	9.6	25	20 - 31
Roche cobas 6000 / c 501	6	25.7	2.5	9.8	27	20 - 31
Roche Integra	11	25.0	2.7	10.9	25	20 - 30
Siemens Dimension	16	29.8	2.6	8.7	30	23 - 36
All Chemistry Instruments	81	27.7	3.3	12.0	28	22 - 34
ISE Diluted						
All Chemistry Instruments	10	26.7	2.6	9.7	27	21 - 33
ISE Undiluted						
All Chemistry Instruments	9	27.6	3.5	12.6	27	22 - 34
VITROS						
VITROS 250,350,400 500,700,750,950	10	25.1	2.1	8.5	25	20 - 31
VITROS XT 3400	5	25.0	3.2	12.6	25	20 - 30
All Chemistry Instruments	18	25.2	2.3	9.0	25	20 - 31

Potassium (mmol/L)

Method/Instrument	Specimen CH-11 Labs	Mean	SD	CV	Median	Range	Specimen CH-12 Labs	Mean	SD	CV	Median	Range
All Method	138	5.29	0.12	2.4	5.3	4.7 - 5.8	140	3.77	0.12	3.1	3.7	3.2 - 4.3
Abaxis Piccolo												
Abaxis Piccolo - waived	12	5.63	0.33	5.8	5.6	5.1 - 6.2	12	4.06	0.22	5.3	4.1	3.5 - 4.6
Abaxis Piccolo	5	5.58	0.25	4.5	5.6	5.0 - 6.1	5	4.10	0.24	6.0	4.1	3.6 - 4.6
All Chemistry Instruments	17	5.62	0.30	5.4	5.6	5.1 - 6.2	17	4.07	0.22	5.3	4.1	3.5 - 4.6
ISE Diluted												
Beckman AU systems	22	5.22	0.06	1.2	5.2	4.7 - 5.8	22	3.73	0.05	1.2	3.7	3.2 - 4.3
Roche cobas 6000 / c 501	8	5.38	0.07	1.3	5.4	4.8 - 5.9	8	3.83	0.05	1.2	3.8	3.3 - 4.4
Roche Integra	11	5.30	0.01	0.0	5.3	4.8 - 5.8	12	3.78	0.06	1.6	3.8	3.2 - 4.3
Siemens Dimension QuickLyte - Xpand/EXL	17	5.33	0.09	1.7	5.3	4.8 - 5.9	17	3.78	0.06	1.7	3.8	3.2 - 4.3
All Chemistry Instruments	74	5.30	0.10	1.9	5.3	4.8 - 5.8	74	3.77	0.07	1.8	3.8	3.2 - 4.3
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	14	5.34	0.06	1.2	5.4	4.8 - 5.9	14	3.69	0.05	1.5	3.7	3.1 - 4.2
Horiba ABX Pentra 400 / C400	16	5.16	0.12	2.3	5.1	4.6 - 5.7	16	3.71	0.10	2.7	3.7	3.2 - 4.3
All Chemistry Instruments	35	5.24	0.13	2.4	5.3	4.7 - 5.8	35	3.70	0.07	1.9	3.7	3.2 - 4.2
VITROS												
VITROS 250,350,400 500,700,750,950	10	5.24	0.07	1.3	5.3	4.7 - 5.8	10	3.71	0.06	1.5	3.7	3.2 - 4.3
VITROS XT 3400	5	5.24	0.09	1.7	5.3	4.7 - 5.8	5	3.72	0.04	1.2	3.7	3.2 - 4.3
All Chemistry Instruments	17	5.25	0.08	1.5	5.3	4.7 - 5.8	17	3.71	0.05	1.3	3.7	3.2 - 4.3

Method/Instrument	Specimen CH-13 Labs	Mean	SD	CV	Median	Range	Specimen CH-14 Labs	Mean	SD	CV	Median	Range
All Method	130	4.80	0.10	2.1	4.8	4.3 - 5.4	129	6.78	0.16	2.4	6.8	6.2 - 7.3
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	5.1	4.6 - 5.6	3	-	-	-	7.0	6.6 - 7.7
Abaxis Piccolo	1	-	-	-	5.4	4.6 - 5.6	1	-	-	-	7.1	6.6 - 7.7
All Chemistry Instruments	4	5.10	0.24	4.8	5.1	4.6 - 5.6	4	7.13	0.26	3.7	7.1	6.6 - 7.7
ISE Diluted												
Beckman AU systems	22	4.76	0.06	1.2	4.8	4.2 - 5.3	22	6.67	0.06	0.9	6.7	6.1 - 7.2
Roche cobas 6000 / c 501	8	4.91	0.06	1.3	4.9	4.4 - 5.5	8	6.88	0.10	1.5	6.9	6.3 - 7.4
Roche Integra	12	4.82	0.07	1.5	4.8	4.3 - 5.4	12	6.77	0.11	1.6	6.8	6.2 - 7.3
Siemens Dimension QuickLyte - Xpand/EXL	17	4.85	0.06	1.3	4.8	4.3 - 5.4	17	6.81	0.10	1.5	6.8	6.3 - 7.4
All Chemistry Instruments	74	4.82	0.08	1.7	4.8	4.3 - 5.4	74	6.77	0.12	1.8	6.7	6.2 - 7.3
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	13	4.80	0.01	0.0	4.8	4.3 - 5.3	14	6.97	0.16	2.3	6.9	6.4 - 7.5
Horiba ABX Pentra 400 / C400	16	4.71	0.11	2.3	4.7	4.2 - 5.3	16	6.67	0.22	3.2	6.6	6.1 - 7.2
All Chemistry Instruments	35	4.75	0.09	1.9	4.8	4.2 - 5.3	36	6.80	0.26	3.8	6.8	6.3 - 7.4
VITROS												
VITROS 250,350,400 500,700,750,950	10	4.77	0.08	1.7	4.8	4.2 - 5.3	10	6.76	0.12	1.7	6.8	6.2 - 7.3
VITROS XT 3400	5	4.78	0.08	1.8	4.8	4.2 - 5.3	5	6.74	0.11	1.7	6.7	6.2 - 7.3
All Chemistry Instruments	17	4.76	0.08	1.6	4.8	4.2 - 5.3	17	6.76	0.11	1.6	6.8	6.2 - 7.3

Potassium (mmol/L)

Specimen CH-15

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	130	5.79	0.13	2.3	5.8	5.2 - 6.3
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	5.9	5.5 - 6.6
Abaxis Piccolo	1	-	-	-	6.3	5.5 - 6.6
All Chemistry Instruments	4	6.05	0.19	3.2	6.0	5.5 - 6.6
ISE Diluted						
Beckman AU systems	22	5.71	0.04	0.7	5.7	5.2 - 6.3
Roche cobas 6000 / c 501	8	5.86	0.07	1.3	5.9	5.3 - 6.4
Roche Integra	12	5.80	0.07	1.3	5.8	5.3 - 6.3
Siemens Dimension QuickLyte - Xpand/EXL	17	5.83	0.09	1.6	5.8	5.3 - 6.4
All Chemistry Instruments	74	5.79	0.10	1.8	5.8	5.2 - 6.3
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	14	5.91	0.07	1.2	5.9	5.4 - 6.5
Horiba ABX Pentra 400 / C400	16	5.68	0.17	2.9	5.6	5.1 - 6.2
All Chemistry Instruments	36	5.78	0.18	3.1	5.8	5.2 - 6.3
VITROS						
VITROS 250,350,400 500,700,750,950	10	5.76	0.10	1.7	5.8	5.2 - 6.3
VITROS XT 3400	5	5.74	0.09	1.6	5.8	5.2 - 6.3
All Chemistry Instruments	17	5.76	0.09	1.6	5.8	5.2 - 6.3

Sodium (mmol/L)

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

	Specimen CH-11						Specimen CH-12					
Method/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	142	144.8	2.3	1.6	144	140 - 149	144	132.7	2.5	1.9	133	128 - 137
Abaxis Piccolo												
Abaxis Piccolo - waived	11	148.4	1.6	1.1	148	144 - 153	12	135.7	2.2	1.6	136	131 - 140
Abaxis Piccolo	4	-	-	-	148	144 - 153	5	134.8	1.7	1.3	135	130 - 139
All Chemistry Instruments	15	148.1	1.7	1.1	148	144 - 153	17	135.4	2.1	1.5	135	131 - 140
ISE Diluted												
Beckman AU systems	22	143.8	1.5	1.1	144	139 - 148	22	132.9	1.1	0.8	133	128 - 137
Roche cobas 6000 / c 501	8	143.3	1.3	0.9	143	139 - 148	8	131.9	0.8	0.6	132	127 - 136
Roche Integra	12	143.4	0.8	0.6	143	139 - 148	12	132.2	1.2	0.9	132	128 - 137
Siemens Dimension QuickLyte - Xpand/EXL	17	146.1	2.0	1.4	147	142 - 151	17	135.1	1.8	1.3	136	131 - 140
All Chemistry Instruments	74	144.3	1.9	1.3	144	140 - 149	73	133.1	1.6	1.2	133	129 - 138
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	15	143.7	2.3	1.6	143	139 - 148	15	129.1	1.4	1.1	129	125 - 134
Horiba ABX Pentra 400 / C400	15	144.0	2.3	1.6	143	140 - 148	15	130.7	1.7	1.3	130	126 - 135
All Chemistry Instruments	36	143.9	2.2	1.5	144	139 - 148	36	130.3	1.9	1.5	130	126 - 135
VITROS												
VITROS 250,350,400 500,700,750,950	10	146.4	2.0	1.3	147	142 - 151	10	134.5	2.7	2.0	134	130 - 139
VITROS XT 3400	5	145.8	1.1	0.8	146	141 - 150	5	132.6	1.1	0.9	133	128 - 137
All Chemistry Instruments	18	145.8	1.9	1.3	146	141 - 150	18	133.5	2.4	1.8	133	129 - 138

	Specimen CH-13						Specimen CH-14					
All Method	132	140.4	2.1	1.5	140	136 - 145	130	156.1	2.7	1.7	156	152 - 161
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	146	139 - 148	3	-	-	-	162	157 - 165
Abaxis Piccolo	1	-	-	-	140	139 - 148	1	-	-	-	158	157 - 165
All Chemistry Instruments	4	143.3	3.2	2.2	144	139 - 148	4	161.0	2.2	1.3	162	157 - 165
ISE Diluted												
Beckman AU systems	22	140.1	1.2	0.9	140	136 - 145	22	154.5	1.3	0.8	154	150 - 159
Roche cobas 6000 / c 501	8	140.1	1.0	0.7	140	136 - 145	8	155.8	1.3	0.8	156	151 - 160
Roche Integra	12	139.8	1.9	1.3	140	135 - 144	12	154.0	2.0	1.3	153	150 - 158
Siemens Dimension QuickLyte - Xpand/EXL	17	142.0	1.9	1.3	142	138 - 146	17	155.9	2.4	1.6	156	151 - 160
All Chemistry Instruments	73	140.5	1.7	1.2	140	136 - 145	73	154.9	1.9	1.2	155	150 - 159
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	15	138.3	1.4	1.0	138	134 - 143	15	156.7	1.7	1.1	157	152 - 161
Horiba ABX Pentra 400 / C400	15	139.9	2.4	1.7	139	135 - 144	15	157.1	3.3	2.1	156	153 - 162
All Chemistry Instruments	36	139.3	2.1	1.5	139	135 - 144	35	156.5	2.1	1.3	156	152 - 161
VITROS												
VITROS 250,350,400 500,700,750,950	10	142.0	2.3	1.6	143	138 - 146	10	160.3	3.1	1.9	161	156 - 165
VITROS XT 3400	5	141.2	1.5	1.1	141	137 - 146	5	159.4	1.1	0.7	159	155 - 164
All Chemistry Instruments	18	141.4	2.1	1.5	142	137 - 146	18	159.4	2.8	1.7	159	155 - 164

Sodium (mmol/L)

Specimen CH-15

Method/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	129	148.3	2.0	1.3	148	144 - 153
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	152	147 - 156
Abaxis Piccolo	1	-	-	-	148	147 - 156
All Chemistry Instruments	4	151.3	2.2	1.5	152	147 - 156
ISE Diluted						
Beckman AU systems	22	147.4	1.3	0.9	147	143 - 152
Roche cobas 6000 / c 501	8	148.3	1.3	0.9	148	144 - 153
Roche Integra	12	147.2	1.7	1.2	147	143 - 152
Siemens Dimension QuickLyte - Xpand/EXL	17	149.2	2.2	1.5	150	145 - 154
All Chemistry Instruments	73	147.8	1.7	1.1	148	143 - 152
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	15	147.9	1.4	0.9	148	143 - 152
Horiba ABX Pentra 400 / C400	15	148.4	2.8	1.9	147	144 - 153
All Chemistry Instruments	35	147.8	1.8	1.2	148	143 - 152
VITROS						
VITROS 250,350,400 500,700,750,950	10	151.3	2.0	1.3	152	147 - 156
VITROS XT 3400	5	150.4	1.1	0.8	150	146 - 155
All Chemistry Instruments	18	150.6	2.0	1.3	151	146 - 155

TIBC – Calculated (µg/dL)

Method/Instrument	Specimen CH-11 Labs	Mean	SD	CV	Median	Range	Specimen CH-12 Labs	Mean	SD	CV	Median	Range
All Method	10	204.5	52.2	25.5	222	100 - 309	10	121.6	37.2	30.6	136	47 - 196
Other Calculation Specified												
All Chemistry Instruments	5	225.8	44.1	19.5	237	137 - 315	5	137.2	30.3	22.1	147	76 - 198

Method/Instrument	Specimen CH-13 Labs	Mean	SD	CV	Median	Range	Specimen CH-14 Labs	Mean	SD	CV	Median	Range
All Method	10	179.5	46.6	25.9	196	86 - 273	10	280.0	70.4	25.1	305	139 - 421
Other Calculation Specified												
All Chemistry Instruments	5	199.6	39.8	19.9	204	119 - 280	5	308.8	59.7	19.3	326	189 - 429

Method/Instrument	Specimen CH-15 Labs	Mean	SD	CV	Median	Range
All Method	10	229.8	57.2	24.9	250	115 - 345
Other Calculation Specified						
All Chemistry Instruments	5	253.2	47.5	18.7	273	158 - 349

TIBC – Direct (µg/dL)

Method/Instrument	Specimen CH-11 Labs	Mean	SD	CV	Median	Range	Specimen CH-12 Labs	Mean	SD	CV	Median	Range
All Method	16	216.1	41.1	19.0	219	133 - 299	16	136.9	36.8	26.9	139	63 - 211
Siemens Healthcare												
Siemens Dimension	7	184.4	12.3	6.7	181	147 - 222	7	105.9	9.2	8.7	106	84 - 128
VITROS												
All Chemistry Instruments	5	305.3	3.1	1.0	306	244 - 367	5	148.0	9.6	6.5	152	118 - 178

Method/Instrument	Specimen CH-13 Labs	Mean	SD	CV	Median	Range	Specimen CH-14 Labs	Mean	SD	CV	Median	Range
All Method	16	191.8	38.4	20.0	190	115 - 269	16	276.8	29.9	10.8	275	217 - 337
Siemens Healthcare												
Siemens Dimension	7	159.6	7.2	4.5	158	127 - 192	7	261.7	9.8	3.7	261	209 - 315
VITROS												
All Chemistry Instruments	5	248.0	26.1	10.5	235	195 - 301	5	473.0	31.0	6.6	462	378 - 568

Method/Instrument	Specimen CH-15 Labs	Mean	SD	CV	Median	Range
All Method	16	243.6	48.4	19.9	234	146 - 341
Siemens Healthcare						
Siemens Dimension	7	210.4	7.8	3.7	211	168 - 253
VITROS						
All Chemistry Instruments	5	333.0	36.6	11.0	336	259 - 407

UIBC – Direct (µg/dL)

	Specimen CH-11						Specimen CH-12					
Method/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	20	109.3	10.7	9.8	114	87 - 132	20	81.0	8.8	10.8	81	63 - 99
All Roche Reagents	7	103.0	9.5	9.2	104	82 - 124	7	75.4	7.4	9.8	78	60 - 91
Beckman AU												
Beckman AU systems	11	115.7	5.0	4.3	114	92 - 139	11	84.3	4.2	5.0	84	67 - 102

	Specimen CH-13						Specimen CH-14					
All Method	20	100.2	9.1	9.1	104	80 - 121	20	136.8	12.7	9.3	138	109 - 165
All Roche Reagents	7	93.7	7.1	7.6	95	74 - 113	7	129.3	13.6	10.5	132	102 - 157
Beckman AU												
Beckman AU systems	11	105.4	3.7	3.5	106	84 - 127	11	142.5	6.3	4.4	144	114 - 172

	Specimen CH-15					
All Method	20	117.6	11.2	9.5	122	94 - 142
All Roche Reagents	7	109.0	9.1	8.3	112	87 - 131
Beckman AU						
Beckman AU systems	11	124.0	5.5	4.5	123	99 - 149

ALT (SGPT) (IU/L)

	Specimen CH-11						Specimen CH-12					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	141	141.5	10.4	7.3	142	113 - 170	140	62.4	4.9	7.9	62	49 - 75
All Alfa Wassermann Reagents	17	140.6	3.7	2.6	141	112 - 169	17	62.3	2.5	4.0	63	49 - 75
All Horiba Pentra Reagents	18	151.8	4.8	3.2	154	121 - 183	18	66.4	2.8	4.2	67	53 - 80
All Roche Reagents	21	143.4	3.2	2.2	143	114 - 173	21	62.2	1.6	2.6	62	49 - 75
All Siemens Healthcare	6	158.5	6.7	4.2	157	126 - 191	6	70.2	3.3	4.6	70	56 - 85
Abaxis Piccolo												
Abaxis Piccolo - waived	12	131.2	4.7	3.6	131	104 - 158	11	61.2	2.1	3.5	62	48 - 74
All Chemistry Instruments	16	130.9	4.1	3.1	130	104 - 158	15	61.2	1.9	3.2	62	48 - 74
Abbott Architect												
Abbott Architect	5	152.4	3.6	2.3	151	121 - 183	5	66.6	2.2	3.3	66	53 - 80
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	140.6	3.7	2.6	141	112 - 169	17	62.3	2.5	4.0	63	49 - 75
Beckman AU												
Beckman AU systems	22	132.4	3.8	2.9	133	105 - 159	22	57.2	1.7	3.0	57	45 - 69
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	151.8	4.8	3.2	154	121 - 183	18	66.4	2.8	4.2	67	53 - 80
Roche cobas c 501												
Roche cobas 6000 / c 501	8	146.0	2.0	1.4	147	116 - 176	8	63.4	1.1	1.7	64	50 - 77
Roche Integra												
Roche Integra	12	141.8	2.9	2.0	142	113 - 171	12	61.4	1.6	2.5	62	49 - 74
Siemens Healthcare												
Siemens Dimension	5	156.2	4.0	2.5	157	124 - 188	5	69.4	3.0	4.3	69	55 - 84
Siemens Healthcare ALTi												
Siemens Dimension	16	156.9	3.9	2.5	156	125 - 189	16	69.8	4.2	6.0	70	55 - 84
VITROS ALTV												
VITROS 250,350,400 500,700,750,950	10	131.4	2.6	2.0	131	105 - 158	10	57.4	1.2	2.0	58	45 - 69
VITROS XT 3400	5	130.6	5.4	4.1	129	104 - 157	5	55.6	1.3	2.4	55	44 - 67
All Chemistry Instruments	15	131.1	3.6	2.7	130	104 - 158	15	56.8	1.5	2.6	57	45 - 69

ALT (SGPT) (IU/L)

	Specimen CH-13						Specimen CH-14					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	129	118.3	9.1	7.7	118	94 - 142	129	218.6	16.0	7.3	220	174 - 263
All Alfa Wassermann Reagents	17	117.4	3.4	2.9	118	93 - 141	17	217.8	5.2	2.4	220	174 - 262
All Horiba Pentra Reagents	18	126.1	4.1	3.3	127	100 - 152	18	233.9	8.0	3.4	236	187 - 281
All Roche Reagents	20	118.3	3.2	2.7	118	94 - 142	21	220.3	6.0	2.7	221	176 - 265
All Siemens Healthcare	6	131.3	5.8	4.4	130	105 - 158	6	241.7	10.5	4.3	237	193 - 291
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	109	94 - 142	3	-	-	-	199	174 - 263
All Chemistry Instruments	4	-	-	-	109	87 - 132	4	-	-	-	198	158 - 238
Abbott Architect												
Abbott Architect	5	126.2	2.8	2.2	127	100 - 152	5	235.4	4.3	1.8	235	188 - 283
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	117.4	3.4	2.9	118	93 - 141	17	217.8	5.2	2.4	220	174 - 262
Beckman AU												
Beckman AU systems	22	108.9	3.0	2.8	109	87 - 131	22	203.5	6.1	3.0	204	162 - 245
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	126.1	4.1	3.3	127	100 - 152	18	233.9	8.0	3.4	236	187 - 281
Roche cobas c 501												
Roche cobas 6000 / c 501	8	120.9	2.4	2.0	121	96 - 146	8	225.9	2.0	0.9	226	180 - 272
Roche Integra												
Roche Integra	11	116.3	2.4	2.0	117	93 - 140	12	216.7	5.1	2.4	218	173 - 261
Siemens Healthcare												
Siemens Dimension	5	129.4	3.6	2.8	129	103 - 156	5	237.8	5.0	2.1	235	190 - 286
Siemens Healthcare ALTi												
Siemens Dimension	16	130.8	3.2	2.4	131	104 - 157	16	238.9	6.8	2.8	241	191 - 287
VITROS ALTV												
VITROS 250,350,400 500,700,750,950	10	108.4	2.6	2.4	109	86 - 131	10	200.1	6.1	3.1	202	160 - 241
VITROS XT 3400	5	106.2	2.2	2.0	105	84 - 128	5	196.2	8.7	4.4	192	156 - 236
All Chemistry Instruments	15	107.7	2.6	2.4	108	86 - 130	15	198.8	7.0	3.5	198	159 - 239

ALT (SGPT) (IU/L)

Specimen CH-15

Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	129	168.1	12.3	7.3	169	134 - 202
All Alfa Wassermann Reagents	17	166.8	4.5	2.7	168	133 - 201
All Horiba Pentra Reagents	18	179.3	5.9	3.3	181	143 - 216
All Roche Reagents	21	169.2	4.7	2.8	170	135 - 204
All Siemens Healthcare	6	185.3	8.2	4.4	185	148 - 223
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	155	134 - 202
All Chemistry Instruments	4	-	-	-	153	122 - 184
Abbott Architect						
Abbott Architect	5	180.8	3.5	1.9	181	144 - 217
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	17	166.8	4.5	2.7	168	133 - 201
Beckman AU						
Beckman AU systems	22	155.6	4.3	2.7	156	124 - 187
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	179.3	5.9	3.3	181	143 - 216
Roche cobas c 501						
Roche cobas 6000 / c 501	8	173.1	2.7	1.6	174	138 - 208
Roche Integra						
Roche Integra	12	166.7	4.2	2.5	168	133 - 201
Siemens Healthcare						
Siemens Dimension	5	182.4	4.3	2.4	184	145 - 219
Siemens Healthcare ALTi						
Siemens Dimension	16	184.4	5.9	3.2	186	147 - 222
VITROS ALTV						
VITROS 250,350,400 500,700,750,950	10	154.5	4.3	2.8	155	123 - 186
VITROS XT 3400	5	152.4	6.1	4.0	150	121 - 183
All Chemistry Instruments	15	153.8	4.8	3.1	154	123 - 185

Alkaline Phosphatase (IU/L)

	Specimen CH-11						Specimen CH-12					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	145	184.6	23.4	12.7	189	129 - 240	145	100.4	8.4	8.4	100	70 - 131
All Alfa Wassermann Reagents	16	183.4	10.3	5.6	186	128 - 239	16	95.9	5.6	5.8	97	67 - 125
All Horiba Pentra Reagents	18	204.7	12.4	6.0	206	143 - 267	18	108.1	6.1	5.7	108	75 - 141
All Roche Reagents	21	204.3	4.8	2.4	203	143 - 266	21	107.7	3.2	2.9	108	75 - 140
Abaxis Piccolo												
Abaxis Piccolo - waived	12	152.9	7.1	4.7	152	107 - 199	12	94.6	4.5	4.7	95	66 - 123
All Chemistry Instruments	16	152.6	7.3	4.8	152	106 - 199	16	94.8	4.5	4.8	96	66 - 124
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	183.4	10.3	5.6	186	128 - 239	16	95.9	5.6	5.8	97	67 - 125
Beckman AU												
Beckman AU systems	22	175.4	9.7	5.5	178	122 - 229	22	91.5	5.4	5.9	93	64 - 119
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	204.7	12.4	6.0	206	143 - 267	18	108.1	6.1	5.7	108	75 - 141
Roche Integra												
Roche Integra	12	206.3	4.6	2.2	207	144 - 269	12	108.8	3.3	3.0	109	76 - 142
Siemens Healthcare ALPi												
Siemens Dimension	14	209.1	5.6	2.7	210	146 - 272	14	108.6	3.2	2.9	109	75 - 142
VITROS												
VITROS 250,350,400 500,700,750,950	10	151.3	5.6	3.7	151	105 - 197	10	96.3	4.3	4.4	97	67 - 126
All Chemistry Instruments	18	152.3	7.7	5.1	152	106 - 198	18	95.7	5.0	5.2	97	67 - 125

Alkaline Phosphatase (IU/L)

	Specimen CH-13						Specimen CH-14					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	133	161.5	17.2	10.6	164	113 - 210	133	262.8	42.5	16.2	272	183 - 342
All Alfa Wassermann Reagents	16	156.2	8.9	5.7	158	109 - 204	16	259.4	17.3	6.7	265	181 - 338
All Horiba Pentra Reagents	18	176.4	10.6	6.0	177	123 - 230	18	294.6	17.3	5.9	296	206 - 383
All Roche Reagents	21	174.8	4.6	2.6	174	122 - 228	21	293.4	7.8	2.7	293	205 - 382
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	138	113 - 210	3	-	-	-	203	183 - 342
All Chemistry Instruments	4	-	-	-	138	95 - 179	4	-	-	-	204	142 - 264
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	16	156.2	8.9	5.7	158	109 - 204	16	259.4	17.3	6.7	265	181 - 338
Beckman AU												
Beckman AU systems	22	149.8	8.0	5.4	149	104 - 195	22	253.2	13.2	5.2	252	177 - 330
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	176.4	10.6	6.0	177	123 - 230	18	294.6	17.3	5.9	296	206 - 383
Roche Integra												
Roche Integra	12	176.9	4.5	2.6	177	123 - 230	12	296.1	8.5	2.9	296	207 - 385
Siemens Healthcare ALPi												
Siemens Dimension	14	178.2	5.2	2.9	178	124 - 232	14	301.6	9.2	3.0	301	211 - 393
VITROS												
VITROS 250,350,400 500,700,750,950	10	136.9	6.0	4.4	136	95 - 178	10	177.8	6.1	3.4	176	124 - 232
All Chemistry Instruments	18	137.5	7.6	5.5	138	96 - 179	18	178.8	10.5	5.9	177	125 - 233

Alkaline Phosphatase (IU/L)

Specimen CH-15

Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	133	213.3	28.1	13.2	218	149 - 278
All Alfa Wassermann Reagents	16	209.0	12.8	6.1	213	146 - 272
All Horiba Pentra Reagents	18	235.0	13.3	5.7	235	164 - 306
All Roche Reagents	21	234.9	6.1	2.6	234	164 - 306
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	172	149 - 278
All Chemistry Instruments	4	-	-	-	171	119 - 222
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	16	209.0	12.8	6.1	213	146 - 272
Beckman AU						
Beckman AU systems	22	201.3	10.8	5.3	201	140 - 262
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	235.0	13.3	5.7	235	164 - 306
Roche Integra						
Roche Integra	12	237.2	6.6	2.8	236	166 - 309
Siemens Healthcare ALPi						
Siemens Dimension	14	240.6	6.8	2.8	242	168 - 313
VITROS						
VITROS 250,350,400 500,700,750,950	10	163.7	6.8	4.1	164	114 - 213
All Chemistry Instruments	18	164.1	8.7	5.3	164	114 - 214

AST (SGOT) (IU/L)

	Specimen CH-11						Specimen CH-12					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	125	160.4	14.3	8.9	161	128 - 193	124	70.5	6.3	8.9	71	56 - 85
All Alfa Wassermann Reagents	17	151.4	5.7	3.8	150	121 - 182	17	65.1	4.5	7.0	66	52 - 79
All Horiba Pentra Reagents	18	174.3	6.6	3.8	175	139 - 210	17	77.6	3.4	4.4	77	62 - 94
All Roche Reagents	21	162.5	6.0	3.7	161	129 - 195	21	71.0	2.8	4.0	71	56 - 86
Abaxis Piccolo												
Abaxis Piccolo - waived	12	156.2	7.3	4.7	155	124 - 188	12	72.5	3.4	4.7	73	58 - 87
All Chemistry Instruments	16	156.0	6.4	4.1	156	124 - 188	16	72.7	3.1	4.2	73	58 - 88
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	151.4	5.7	3.8	150	121 - 182	17	65.1	4.5	7.0	66	52 - 79
Beckman AU												
Beckman AU systems	22	140.3	5.0	3.5	140	112 - 169	22	61.9	2.1	3.4	62	49 - 75
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	174.3	6.6	3.8	175	139 - 210	17	77.6	3.4	4.4	77	62 - 94
Roche Integra												
Roche Integra	12	163.3	6.6	4.1	162	130 - 196	12	71.3	3.1	4.3	71	57 - 86
Siemens Healthcare												
Siemens Dimension	21	166.9	5.9	3.6	165	133 - 201	21	72.5	3.4	4.7	72	57 - 87
VITROS												
VITROS 250,350,400 500,700,750,950	10	177.1	4.0	2.3	178	141 - 213	10	74.3	1.8	2.4	75	59 - 90
All Chemistry Instruments	18	179.6	5.5	3.0	179	143 - 216	18	75.7	2.7	3.6	76	60 - 91

AST (SGOT) (IU/L)

	Specimen CH-13						Specimen CH-14					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	113	132.6	12.1	9.1	134	106 - 160	113	248.8	28.1	11.3	248	199 - 299
All Alfa Wassermann Reagents	17	125.6	3.9	3.1	127	100 - 151	17	232.2	7.2	3.1	233	185 - 279
All Horiba Pentra Reagents	18	144.5	5.8	4.0	145	115 - 174	18	267.2	11.3	4.2	267	213 - 321
All Roche Reagents	21	132.8	5.1	3.9	133	106 - 160	21	247.8	9.4	3.8	246	198 - 298
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	130	106 - 160	3	-	-	-	233	199 - 299
All Chemistry Instruments	4	-	-	-	130	103 - 155	4	-	-	-	236	187 - 281
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	17	125.6	3.9	3.1	127	100 - 151	17	232.2	7.2	3.1	233	185 - 279
Beckman AU												
Beckman AU systems	22	115.5	4.6	4.0	116	92 - 139	22	213.1	7.5	3.5	216	170 - 256
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	144.5	5.8	4.0	145	115 - 174	18	267.2	11.3	4.2	267	213 - 321
Roche Integra												
Roche Integra	12	132.4	6.0	4.5	132	105 - 159	12	248.9	9.5	3.8	248	199 - 299
Siemens Healthcare												
Siemens Dimension	20	137.9	4.2	3.0	137	110 - 166	21	255.6	7.1	2.8	253	204 - 307
VITROS												
VITROS 250,350,400 500,700,750,950	10	144.7	4.1	2.9	144	115 - 174	10	297.3	9.8	3.3	297	237 - 357
All Chemistry Instruments	18	146.7	5.0	3.4	147	117 - 177	18	295.6	8.7	2.9	296	236 - 355

AST (SGOT) (IU/L)

Specimen CH-15

Instrument/Reagent	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	113	190.7	18.9	9.9	191	152 - 229
All Alfa Wassermann Reagents	17	180.6	5.8	3.2	182	144 - 217
All Horiba Pentra Reagents	18	204.8	8.3	4.0	205	163 - 246
All Roche Reagents	21	192.0	7.3	3.8	191	153 - 231
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	181	152 - 229
All Chemistry Instruments	4	-	-	-	182	144 - 217
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	17	180.6	5.8	3.2	182	144 - 217
Beckman AU						
Beckman AU systems	22	164.8	6.2	3.7	166	131 - 198
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	204.8	8.3	4.0	205	163 - 246
Roche Integra						
Roche Integra	12	192.3	7.6	3.9	192	153 - 231
Siemens Healthcare						
Siemens Dimension	21	195.8	5.5	2.8	194	156 - 235
VITROS						
VITROS 250,350,400 500,700,750,950	10	216.9	5.5	2.5	217	173 - 261
All Chemistry Instruments	18	218.2	5.5	2.5	217	174 - 262

Creatine Kinase (IU/L)

	Specimen CH-11						Specimen CH-12					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	46	182.2	14.3	7.8	185	127 - 237	46	80.5	5.9	7.4	82	56 - 105
All Alfa Wassermann Reagents	5	178.6	6.0	3.4	180	125 - 233	5	82.2	4.6	5.6	82	57 - 107
All Roche Reagents	9	189.7	4.5	2.4	190	132 - 247	9	83.8	2.4	2.9	85	58 - 109
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	5	178.6	6.0	3.4	180	125 - 233	5	82.2	4.6	5.6	82	57 - 107
Beckman AU												
Beckman AU systems	8	169.5	8.4	5.0	168	118 - 221	8	73.3	4.2	5.7	72	51 - 96
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	6	183.5	8.0	4.4	180	128 - 239	6	81.0	3.3	4.1	81	56 - 106
Roche Integra												
Roche Integra	5	189.0	4.1	2.2	190	132 - 246	5	84.0	3.0	3.6	85	58 - 110
Siemens Healthcare CKI												
Siemens Dimension	8	191.4	2.3	1.2	191	133 - 249	8	83.0	1.4	1.7	83	58 - 108
VITROS												
All Chemistry Instruments	5	159.0	10.5	6.6	157	111 - 207	5	73.6	4.0	5.4	73	51 - 96

	Specimen CH-13						Specimen CH-14					
All Method	46	152.0	11.7	7.7	156	106 - 198	46	272.4	26.2	9.6	282	190 - 355
All Alfa Wassermann Reagents	5	151.2	7.7	5.1	150	105 - 197	5	259.2	7.4	2.9	261	181 - 337
All Roche Reagents	9	157.8	4.3	2.7	158	110 - 206	9	284.7	10.5	3.7	287	199 - 371
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	5	151.2	7.7	5.1	150	105 - 197	5	259.2	7.4	2.9	261	181 - 337
Beckman AU												
Beckman AU systems	8	139.1	9.4	6.7	139	97 - 181	8	258.3	16.0	6.2	259	180 - 336
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	6	153.7	6.4	4.2	154	107 - 200	6	278.8	12.8	4.6	279	195 - 363
Roche Integra												
Roche Integra	5	156.8	5.5	3.5	159	109 - 204	5	281.4	13.2	4.7	284	196 - 366
Siemens Healthcare CKI												
Siemens Dimension	8	158.9	2.2	1.4	159	111 - 207	8	290.1	5.2	1.8	290	203 - 378
VITROS												
All Chemistry Instruments	5	136.0	6.4	4.7	138	95 - 177	5	220.0	13.1	5.9	217	154 - 286

Creatine Kinase (IU/L) cont'd

Specimen CH-15

All Method	46	215.6	18.1	8.4	221	150 - 281
All Alfa Wassermann Reagents	5	208.6	7.8	3.7	208	146 - 272
All Roche Reagents	9	223.1	8.0	3.6	223	156 - 291
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	5	208.6	7.8	3.7	208	146 - 272
Beckman AU						
Beckman AU systems	8	202.9	12.4	6.1	203	142 - 264
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	6	220.0	7.9	3.6	219	154 - 286
Roche Integra						
Roche Integra	5	220.8	9.9	4.5	221	154 - 288
Siemens Healthcare CKI						
Siemens Dimension	8	227.8	3.4	1.5	228	159 - 297
VITROS						
All Chemistry Instruments	5	182.8	9.8	5.4	183	127 - 238

GGT (IU/L)

Instrument/Reagent	Specimen CH-11 Labs	Mean	SD	CV	Median	Range	Specimen CH-12 Labs	Mean	SD	CV	Median	Range
All Method	28	124.4	26.7	21.5	115	71 - 178	28	58.5	13.0	22.2	54	32 - 85
All Roche Reagents	11	113.5	5.4	4.7	113	96 - 131	11	52.8	2.7	5.1	53	44 - 61
Roche Integra												
Roche Integra	7	113.4	1.6	1.4	114	96 - 131	7	52.9	0.7	1.3	53	44 - 61

Instrument/Reagent	Specimen CH-13 Labs	Mean	SD	CV	Median	Range	Specimen CH-14 Labs	Mean	SD	CV	Median	Range
All Method	25	98.6	14.8	15.1	96	68 - 129	27	186.4	39.4	21.1	175	107 - 266
All Roche Reagents	11	94.8	4.3	4.5	94	80 - 110	11	171.9	7.8	4.6	171	146 - 198
Roche Integra												
Roche Integra	7	95.0	1.0	1.1	95	80 - 110	7	172.3	2.4	1.4	171	146 - 199

Instrument/Reagent	Specimen CH-15 Labs	Mean	SD	CV	Median	Range
All Method	26	140.9	22.9	16.2	135	95 - 187
All Roche Reagents	11	133.1	6.0	4.5	133	113 - 154
Roche Integra						
Roche Integra	7	133.4	2.1	1.6	133	113 - 154

Amylase (IU/L)

Instrument/Reagent	Specimen CH-11 Labs	Mean	SD	CV	Median	Range	Specimen CH-12 Labs	Mean	SD	CV	Median	Range
All Method	35	94.2	15.0	16.0	98	65 - 123	35	45.4	7.1	15.5	47	31 - 60
All Roche Reagents	7	97.7	3.9	4.0	97	68 - 128	7	47.4	1.5	3.2	47	33 - 62
Beckman AU												
Beckman AU systems	7	81.1	3.1	3.9	82	56 - 106	7	38.3	2.0	5.2	39	26 - 50
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	5	103.8	3.7	3.6	103	72 - 135	5	50.4	3.4	6.7	49	35 - 66
Siemens Healthcare												
Siemens Dimension	5	110.0	0.7	0.6	110	77 - 143	5	51.8	0.8	1.6	52	36 - 68
VITROS												
VITROS 250,350,400 500,700,750,950	5	68.6	4.7	6.8	70	48 - 90	5	35.0	5.8	16.5	33	24 - 46

Instrument/Reagent	Specimen CH-13 Labs	Mean	SD	CV	Median	Range	Specimen CH-14 Labs	Mean	SD	CV	Median	Range
All Method	34	78.9	12.5	15.8	82	55 - 103	34	141.8	22.5	15.9	147	99 - 185
All Roche Reagents	7	81.9	2.9	3.6	82	57 - 107	7	146.6	5.2	3.6	145	102 - 191
Beckman AU												
Beckman AU systems	7	68.1	3.4	5.0	68	47 - 89	7	122.0	5.5	4.5	123	85 - 159
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	5	86.0	3.1	3.6	86	60 - 112	5	153.6	5.8	3.8	153	107 - 200
Siemens Healthcare												
Siemens Dimension	5	92.2	0.8	0.9	92	64 - 120	5	166.2	0.8	0.5	166	116 - 217
VITROS												
VITROS 250,350,400 500,700,750,950	5	58.2	3.6	6.2	60	40 - 76	5	104.8	2.6	2.5	105	73 - 137

Instrument/Reagent	Specimen CH-15 Labs	Mean	SD	CV	Median	Range
All Method	34	110.9	16.8	15.2	115	77 - 145
All Roche Reagents	7	113.9	3.9	3.5	113	79 - 149
Beckman AU						
Beckman AU systems	7	94.7	5.4	5.7	96	66 - 124
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	5	120.6	3.0	2.5	121	84 - 157
Siemens Healthcare						
Siemens Dimension	5	129.0	0.7	0.5	129	90 - 168
VITROS						
VITROS 250,350,400 500,700,750,950	5	85.0	2.6	3.1	84	59 - 111

Lactate Dehydrogenase (IU/L)

	Specimen CH-11						Specimen CH-12					
Instrument/Reagent	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	44	467.0	51.6	11.1	477	373 - 561	44	256.1	31.8	12.4	258	204 - 308
All Horiba Pentra Reagents	5	481.0	14.8	3.1	481	384 - 578	5	258.4	8.8	3.4	258	206 - 311
All Roche Reagents	15	498.4	10.1	2.0	500	398 - 599	15	273.5	6.7	2.4	274	218 - 329
Abbott Architect												
Abbott Architect	5	474.0	14.0	3.0	474	379 - 569	5	254.0	7.2	2.8	252	203 - 305
Beckman AU												
Beckman AU systems	8	405.8	10.5	2.6	409	324 - 487	8	220.1	6.0	2.7	223	176 - 265
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	5	481.0	14.8	3.1	481	384 - 578	5	258.4	8.8	3.4	258	206 - 311
Roche cobas c 501												
Roche cobas 6000 / c 501	5	494.0	16.1	3.3	496	395 - 593	5	267.3	10.5	3.9	267	213 - 321
Roche Integra												
Roche Integra	10	499.7	8.4	1.7	502	399 - 600	10	275.4	4.3	1.6	274	220 - 331
Siemens Healthcare LDI												
Siemens Dimension	5	463.7	5.5	1.2	461	370 - 557	5	247.0	1.0	0.4	247	197 - 297
VITROS LDHI												
All Chemistry Instruments	5	634.5	24.7	3.9	635	507 - 762	5	337.5	9.2	2.7	338	270 - 405

	Specimen CH-13						Specimen CH-14					
All Method	44	404.9	49.4	12.2	411	323 - 486	44	665.7	71.7	10.8	680	532 - 799
All Horiba Pentra Reagents	5	410.2	11.3	2.8	415	328 - 493	5	684.4	24.1	3.5	684	547 - 822
All Roche Reagents	15	429.4	9.0	2.1	431	343 - 516	15	706.1	16.2	2.3	709	564 - 848
Abbott Architect												
Abbott Architect	5	407.7	15.8	3.9	404	326 - 490	5	679.0	32.4	4.8	665	543 - 815
Beckman AU												
Beckman AU systems	8	347.8	11.5	3.3	350	278 - 418	8	583.6	20.5	3.5	585	466 - 701
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	5	410.2	11.3	2.8	415	328 - 493	5	684.4	24.1	3.5	684	547 - 822
Roche cobas c 501												
Roche cobas 6000 / c 501	5	421.7	14.0	3.3	426	337 - 507	5	701.7	19.1	2.7	709	561 - 843
Roche Integra												
Roche Integra	10	431.7	6.1	1.4	432	345 - 519	10	707.4	16.1	2.3	706	565 - 849
Siemens Healthcare LDI												
Siemens Dimension	5	396.3	1.2	0.3	397	317 - 476	5	670.0	5.6	0.8	671	536 - 804
VITROS LDHI												
All Chemistry Instruments	5	534.5	13.4	2.5	535	427 - 642	5	917.0	58.0	6.3	917	733 - 1101

Lactate Dehydrogenase (IU/L) cont'd

Specimen CH-15

All Method	44	532.7	59.2	11.1	543	426 - 640
All Horiba Pentra Reagents	5	548.4	17.8	3.2	548	438 - 659
All Roche Reagents	15	566.5	12.6	2.2	566	453 - 680
Abbott Architect						
Abbott Architect	5	546.0	23.3	4.3	542	436 - 656
Beckman AU						
Beckman AU systems	8	461.5	13.4	2.9	466	369 - 554
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	5	548.4	17.8	3.2	548	438 - 659
Roche cobas c 501						
Roche cobas 6000 / c 501	5	563.0	19.0	3.4	568	450 - 676
Roche Integra						
Roche Integra	10	567.5	11.2	2.0	565	454 - 681
Siemens Healthcare LDI						
Siemens Dimension	5	532.7	5.1	1.0	534	426 - 640
VITROS LDHI						
All Chemistry Instruments	5	739.5	41.7	5.6	740	591 - 888

Lipase (IU/L)

Instrument/Reagent	Specimen CH-11 Labs	Mean	SD	CV	Median	Range	Specimen CH-12 Labs	Mean	SD	CV	Median	Range
All Method	16	28.9	2.8	9.9	31	20 - 38	16	16.9	1.8	10.9	17	11 - 23
All Roche Reagents	6	27.2	1.3	4.9	27	19 - 36	6	15.8	1.0	6.2	16	11 - 21
Beckman AU												
Beckman AU systems	5	31.4	2.1	6.6	32	21 - 41	5	18.2	2.2	11.9	17	12 - 24

Instrument/Reagent	Specimen CH-13 Labs	Mean	SD	CV	Median	Range	Specimen CH-14 Labs	Mean	SD	CV	Median	Range
All Method	16	24.6	2.2	8.8	26	17 - 32	16	40.9	5.3	13.1	44	28 - 54
All Roche Reagents	6	23.7	0.8	3.4	24	16 - 31	6	37.0	1.7	4.5	36	25 - 49
Beckman AU												
Beckman AU systems	5	25.8	1.8	6.9	27	18 - 34	5	45.6	4.8	10.5	45	31 - 60

Instrument/Reagent	Specimen CH-15 Labs	Mean	SD	CV	Median	Range
All Method	16	32.9	4.8	14.5	35	23 - 43
All Roche Reagents	6	30.2	1.6	5.3	30	21 - 40
Beckman AU						
Beckman AU systems	5	37.0	4.7	12.7	35	25 - 49

Alpha-fetoprotein (AFP) (ng/mL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	6	175.35	16.46	9.4	174.7	125.9 - 224.8	6	66.85	4.03	6.0	67.1	54.7 - 79.0
	Specimen CH-13						**Specimen CH-14**					
All Method	6	139.75	7.78	5.6	140.0	116.3 - 163.2	6	268.88	15.35	5.7	268.6	222.8 - 315.0
	Specimen CH-15											
All Method	6	207.20	12.08	5.8	206.9	170.9 - 243.5						

Cortisol (µg/dL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	14	17.69	1.72	9.7	17.9	13.2 - 22.2	14	9.42	1.03	11.0	9.7	7.0 - 11.8
Beckman ACCESS / 2 / DxI	8	18.88	1.10	5.8	19.2	14.1 - 23.6	8	10.19	0.42	4.1	10.2	7.6 - 12.8
	Specimen CH-13						**Specimen CH-14**					
All Method	14	15.17	1.56	10.3	15.6	11.3 - 19.0	14	25.33	2.43	9.6	25.6	18.9 - 31.7
Beckman ACCESS / 2 / DxI	8	16.31	0.79	4.8	15.9	12.2 - 20.4	8	26.75	1.73	6.5	27.1	20.0 - 33.5
	Specimen CH-15											
All Method	14	20.38	2.03	10.0	20.1	15.2 - 25.5						
Beckman ACCESS / 2 / DxI	8	21.81	1.18	5.4	22.2	16.3 - 27.3						

T_3 Uptake (percent)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	8	45.65	4.91	10.8	43.8	30.9 - 60.4	8	48.14	6.24	13.0	47.4	29.4 - 66.9
	Specimen CH-13						**Specimen CH-14**					
All Method	8	45.56	4.56	10.0	44.7	31.8 - 59.3	8	43.08	3.65	8.5	41.7	32.1 - 54.1
	Specimen CH-15											
All Method	8	44.09	3.48	7.9	42.7	33.6 - 54.6						

Triiodothyronine (ng/mL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	18	1.49	0.26	17.7	1.6	0.6 - 2.3	18	1.19	0.27	22.3	1.3	0.3 - 2.0
All Abbott Instruments	5	1.14	0.09	7.8	1.2	0.8 - 1.5	5	0.88	0.04	5.1	0.9	0.7 - 1.1
All TOSOH Instruments	6	6.35	0.32	5.1	6.3	5.3 - 7.4	6	5.05	0.18	3.5	5.0	4.5 - 5.6
Abbott Architect	5	1.14	0.09	7.8	1.2	0.8 - 1.5	5	0.88	0.04	5.1	0.9	0.7 - 1.1
Beckman ACCESS / 2 / DxI	9	1.67	0.14	8.5	1.6	1.2 - 2.1	9	1.27	0.22	17.7	1.2	0.5 - 2.0
TOSOH ST AIA-PACK	5	6.30	0.33	5.3	6.2	5.3 - 7.3	5	5.02	0.18	3.6	5.0	4.4 - 5.6
	Specimen CH-13						**Specimen CH-14**					
All Method	18	1.38	0.23	16.8	1.5	0.6 - 2.1	18	1.79	0.38	21.2	2.0	0.6 - 3.0
All Abbott Instruments	5	1.06	0.05	5.2	1.1	0.8 - 1.3	5	1.28	0.04	3.5	1.3	1.1 - 1.5
All TOSOH Instruments	6	6.13	0.10	1.7	6.1	5.8 - 6.5	6	7.42	0.17	2.3	7.4	6.8 - 8.0
Abbott Architect	5	1.06	0.05	5.2	1.1	0.8 - 1.3	5	1.28	0.04	3.5	1.3	1.1 - 1.5
Beckman ACCESS / 2 / DxI	9	1.49	0.12	7.8	1.5	1.1 - 1.9	9	2.09	0.14	6.5	2.1	1.6 - 2.5
TOSOH ST AIA-PACK	5	6.10	0.07	1.2	6.1	5.8 - 6.4	5	7.44	0.18	2.4	7.4	6.8 - 8.0
	Specimen CH-15											
All Method	18	1.59	0.30	18.8	1.8	0.6 - 2.5						
All Abbott Instruments	5	1.18	0.04	3.8	1.2	1.0 - 1.4						
All TOSOH Instruments	5	6.96	0.26	3.7	6.9	6.1 - 7.8						
Abbott Architect	5	1.18	0.04	3.8	1.2	1.0 - 1.4						
Beckman ACCESS / 2 / DxI	9	1.79	0.11	5.9	1.8	1.4 - 2.2						
TOSOH ST AIA-PACK	5	6.96	0.26	3.7	6.9	6.1 - 7.8						

Free T_3 (pg/mL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	30	4.53	0.65	14.4	4.4	2.5 - 6.5	30	3.92	0.58	14.9	3.8	2.1 - 5.7
All TOSOH Instruments	5	8.72	0.33	3.8	8.6	7.7 - 9.8	5	6.74	0.36	5.4	6.6	5.6 - 7.9
Beckman ACCESS / 2 / DxI	17	4.08	0.25	6.2	4.1	3.3 - 4.9	17	3.55	0.18	5.0	3.5	3.0 - 4.1

	Specimen CH-13						Specimen CH-14					
All Method	30	4.36	0.61	13.9	4.3	2.5 - 6.2	30	4.94	0.70	14.2	4.8	2.8 - 7.1
All TOSOH Instruments	5	7.98	0.36	4.5	7.9	6.9 - 9.1	5	10.26	0.50	4.9	10.1	8.7 - 11.8
Beckman ACCESS / 2 / DxI	17	3.92	0.19	5.0	3.9	3.3 - 4.6	17	4.46	0.24	5.4	4.5	3.7 - 5.2

	Specimen CH-15					
All Method	30	4.64	0.67	14.4	4.6	2.6 - 6.7
All TOSOH Instruments	5	9.18	0.33	3.6	9.0	8.1 - 10.2
Beckman ACCESS / 2 / DxI	16	4.22	0.16	3.8	4.3	3.7 - 4.7

Thyroxine (ng/dL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	16	7.02	0.55	7.8	7.0	5.6 - 8.5	16	3.89	0.35	9.1	4.0	2.8 - 4.9
All TOSOH Instruments	7	6.96	0.62	8.9	6.9	5.5 - 8.4	7	3.89	0.35	9.1	3.7	2.8 - 4.9
Beckman ACCESS / 2 / DxI	5	8.54	0.44	5.2	8.6	6.8 - 10.3	5	4.68	0.46	9.8	4.6	3.6 - 5.7
TOSOH ST AIA-PACK	6	7.05	0.62	8.8	6.9	5.6 - 8.5	6	3.92	0.38	9.6	3.9	2.9 - 5.0

	Specimen CH-13						Specimen CH-14					
All Method	16	6.03	0.48	8.0	6.1	4.8 - 7.3	16	9.90	0.81	8.2	10.2	7.9 - 11.9
All TOSOH Instruments	7	6.04	0.62	10.3	6.2	4.8 - 7.3	7	9.71	1.11	11.4	9.5	7.7 - 11.7
Beckman ACCESS / 2 / DxI	5	7.40	0.20	2.7	7.5	5.9 - 8.9	5	11.62	0.83	7.1	11.3	9.2 - 14.0
TOSOH ST AIA PACK	6	5.97	0.64	10.8	6.0	4.7 - 7.2	6	9.88	1.11	11.2	9.9	7.9 - 11.9

	Specimen CH-15					
All Method	16	7.92	0.47	5.9	7.9	6.3 - 9.6
All TOSOH Instruments	7	7.80	0.44	5.7	7.6	6.2 - 9.4
Beckman ACCESS / 2 / DxI	5	9.02	0.38	4.2	8.8	7.2 - 10.9
TOSOH ST AIA PACK	6	7.87	0.45	5.7	7.7	6.2 - 9.5

Free Thyroxine (ng/dL)

Method	Specimen CH-11 Labs	Mean	SD	CV	Median	Range	Specimen CH-12 Labs	Mean	SD	CV	Median	Range
All Method	94	2.18	0.44	20.1	2.0	0.8 - 3.6	94	1.51	0.30	20.0	1.4	0.6 - 2.5
All TOSOH Instruments	18	2.74	0.27	9.9	2.8	1.9 - 3.6	18	1.86	0.21	11.4	1.9	1.2 - 2.5
Beckman ACCESS / 2 / DxI	37	1.81	0.10	5.4	1.8	1.5 - 2.2	37	1.30	0.07	5.6	1.3	1.0 - 1.6
Siemens Dimension	12	2.43	0.11	4.7	2.5	2.0 - 2.8	12	1.62	0.08	5.2	1.6	1.3 - 1.9
TOSOH ST AIA-PACK	13	2.74	0.32	11.7	2.8	1.7 - 3.7	13	1.88	0.24	12.9	1.9	1.1 - 2.7

Method	Specimen CH-13 Labs	Mean	SD	CV	Median	Range	Specimen CH-14 Labs	Mean	SD	CV	Median	Range
All Method	94	2.00	0.40	20.1	1.8	0.7 - 3.3	94	2.69	0.53	19.8	2.6	1.0 - 4.3
All TOSOH Instruments	18	2.52	0.23	9.3	2.5	1.8 - 3.3	18	3.38	0.29	8.5	3.4	2.5 - 4.3
Beckman ACCESS / 2 / DxI	36	1.69	0.08	4.9	1.7	1.4 - 2.0	36	2.18	0.12	5.3	2.2	1.8 - 2.6
Siemens Dimension	12	2.19	0.11	4.9	2.2	1.8 - 2.6	12	3.01	0.14	4.6	3.1	2.5 - 3.5
TOSOH ST AIA PACK	13	2.52	0.28	11.0	2.6	1.6 - 3.4	13	3.37	0.33	9.9	3.4	2.3 - 4.4

Method	Specimen CH-15 Labs	Mean	SD	CV	Median	Range
All Method	93	2.37	0.48	20.1	2.2	0.9 - 3.8
All TOSOH Instruments	18	2.98	0.26	8.8	3.0	2.1 - 3.8
Beckman ACCESS / 2 / DxI	37	1.95	0.10	4.9	2.0	1.6 - 2.3
Siemens Dimension	12	2.60	0.14	5.4	2.7	2.1 - 3.1
TOSOH ST AIA PACK	13	2.98	0.31	10.4	3.0	2.0 - 4.0

TSH (μU/mL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	117	4.45	0.59	13.3	4.6	2.6 - 6.3	118	1.91	0.24	12.6	1.9	1.1 - 2.7
All Abbott Instruments	10	3.73	0.08	2.2	3.8	3.4 - 4.0	10	1.56	0.08	5.4	1.5	1.3 - 1.9
All Roche Instruments	10	4.62	0.13	2.8	4.6	4.2 - 5.1	10	2.11	0.06	2.7	2.1	1.9 - 2.3
All TOSOH Instruments	22	5.03	0.25	5.0	5.1	4.2 - 5.8	23	2.17	0.10	4.7	2.2	1.8 - 2.5
Abbott Architect	10	3.73	0.08	2.2	3.8	3.4 - 4.0	10	1.56	0.08	5.4	1.5	1.3 - 1.9
Beckman ACCESS / 2 / DxI	41	4.56	0.30	6.6	4.7	3.6 - 5.5	40	1.89	0.09	4.6	1.9	1.6 - 2.2
Qualigen FastPack	5	4.90	0.99	20.2	4.9	1.9 - 7.9	5	2.06	0.19	9.5	2.0	1.4 - 2.7
Roche cobas e 411	5	4.68	0.13	2.8	4.7	4.2 - 5.1	5	2.14	0.05	2.6	2.1	1.9 - 2.4
Roche cobas e 601/ e 602	5	4.56	0.11	2.5	4.6	4.2 - 5.0	5	2.08	0.04	2.2	2.1	1.9 - 2.3
Siemens Dimension	17	3.64	0.22	6.1	3.6	2.9 - 4.3	18	1.58	0.11	7.1	1.6	1.2 - 2.0
TOSOH AIA PACK	8	4.99	0.20	4.1	5.0	4.3 - 5.6	8	2.16	0.11	4.9	2.2	1.8 - 2.5
TOSOH ST AIA-PACK	14	5.05	0.28	5.5	5.1	4.2 - 5.9	15	2.17	0.10	4.8	2.2	1.8 - 2.5

	Specimen CH-13						Specimen CH-14					
All Method	116	3.67	0.47	12.7	3.7	2.2 - 5.1	118	6.60	0.83	12.6	6.8	4.0 - 9.1
All Abbott Instruments	10	3.09	0.17	5.6	3.1	2.5 - 3.7	10	5.72	0.30	5.2	5.7	4.8 - 6.7
All Roche Instruments	10	3.90	0.13	3.4	3.9	3.4 - 4.4	10	6.70	0.18	2.6	6.8	6.1 - 7.3
All TOSOH Instruments	23	4.13	0.28	6.7	4.2	3.3 - 5.0	22	7.45	0.39	5.3	7.6	6.2 - 8.7
Abbott Architect	10	3.09	0.17	5.6	3.1	2.5 - 3.7	10	5.72	0.30	5.2	5.7	4.8 - 6.7
Beckman ACCESS / 2 / DxI	41	3.72	0.23	6.1	3.7	3.0 - 4.5	40	6.87	0.58	8.4	7.0	5.1 - 8.6
Qualigen FastPack	5	4.02	0.61	15.3	3.8	2.1 - 5.9	5	6.64	0.53	8.0	6.8	5.0 - 8.3
Roche cobas e 411	5	3.98	0.08	2.1	4.0	3.7 - 4.3	5	6.78	0.08	1.2	6.8	6.5 - 7.1
Roche cobas e 601/ e 602	5	3.82	0.13	3.4	3.9	3.4 - 4.3	5	6.62	0.22	3.3	6.7	5.9 - 7.3
Siemens Dimension	18	3.02	0.21	7.1	3.0	2.3 - 3.7	18	5.47	0.32	5.8	5.6	4.5 - 6.5
TOSOH AIA PACK	8	4.11	0.18	4.4	4.1	3.5 - 4.7	8	7.50	0.35	4.7	7.5	6.4 - 8.6
TOSOH ST AIA PACK	15	4.15	0.32	7.8	4.3	3.1 - 5.2	15	7.28	0.71	9.7	7.6	5.1 - 9.4

	Specimen CH-15					
All Method	118	5.23	0.66	12.7	5.3	3.2 - 7.3
All Abbott Instruments	10	4.46	0.24	5.4	4.4	3.7 - 5.2
All Roche Instruments	10	5.43	0.40	7.3	5.3	4.2 - 6.7
All TOSOH Instruments	23	5.90	0.43	7.3	6.0	4.6 - 7.3
Abbott Architect	10	4.46	0.24	5.4	4.4	3.7 - 5.2
Beckman ACCESS / 2 / DxI	41	5.40	0.38	7.0	5.4	4.2 - 6.6
Qualigen FastPack	5	5.82	1.24	21.3	5.4	2.0 - 9.6
Roche cobas e 411	5	5.60	0.51	9.1	5.4	4.0 - 7.2
Roche cobas e 601/ e 602	5	5.26	0.15	2.9	5.3	4.8 - 5.8
Siemens Dimension	18	4.26	0.22	5.2	4.3	3.5 - 5.0
TOSOH AIA PACK	8	5.85	0.39	6.7	5.8	4.6 - 7.1
TOSOH ST AIA PACK	15	5.93	0.46	7.8	6.0	4.5 - 7.4

Serum hCG – Qualitative

	Specimen HCG-11			Specimen HCG-12		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
ALL METHODS	123	123	-	123	-	123
AimStep Combo Pregnancy	1	1	-	1	-	1
Alere hCG Combo Cassette	2	2	-	2	-	2
Beckman Coulter ICON 20 hCG	68	68	-	68	-	68
Beckman Coulter ICON 25 hCG	6	6	-	6	-	6
BTNX Rapid Response hCG	1	1	-	1	-	1
Cardinal Health SP Brand combo	8	8	-	8	-	8
CONSULT diagnostics hCG Combo	7	7	-	7	-	7
Henry Schein One Step + Combo	6	6	-	6	-	6
McKesson hCG Combo Cassette	5	5	-	5	-	5
Medline hCG Combo Test Cassette	2	2	-	2	-	2
Quidel QuickVue + One-Step	4	4	-	4	-	4
Quidel QuickVue One-Step Combo	9	9	-	9	-	9
Sekisui OSOM hCG Combo Test	2	2	-	2	-	2
Stanbio QUPID Plus	2	2	-	2	-	2

	Specimen HCG-13			Specimen HCG-14		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
ALL METHODS	123	123	-	123	-	123
AimStep Combo Pregnancy	1	1	-	1	-	1
Alere hCG Combo Cassette	2	2	-	2	-	2
Beckman Coulter ICON 20 hCG	68	68	-	68	-	68
Beckman Coulter ICON 25 hCG	6	6	-	6	-	6
BTNX Rapid Response hCG	1	1	-	1	-	1
Cardinal Health SP Brand combo	8	8	-	8	-	8
CONSULT diagnostics hCG Combo	7	7	-	7	-	7
Henry Schein One Step + Combo	6	6	-	6	-	6
McKesson hCG Combo Cassette	5	5	-	5	-	5
Medline hCG Combo Test Cassette	2	2	-	2	-	2
Quidel QuickVue + One-Step	4	4	-	4	-	4
Quidel QuickVue One-Step Combo	9	9	-	9	-	9
Sekisui OSOM hCG Combo Test	2	2	-	2	-	2
Stanbio QUPID Plus	2	2	-	2	-	2

Serum hCG – Qualitative

Specimen HCG-15

Method	*Labs*	*Positive*	*Negative*
ALL METHODS	123	122	1
AimStep Combo Pregnancy	1	1	-
Alere hCG Combo Cassette	2	2	-
Beckman Coulter ICON 20 hCG	68	67	1
Beckman Coulter ICON 25 hCG	6	6	-
BTNX Rapid Response hCG	1	1	-
Cardinal Health SP Brand combo	8	8	-
CONSULT diagnostics hCG Combo	7	7	-
Henry Schein One Step + Combo	6	6	-
McKesson hCG Combo Cassette	5	5	-
Medline hCG Combo Test Cassette	2	2	-
Quidel QuickVue + One-Step	4	4	-
Quidel QuickVue One-Step Combo	9	9	-
Sekisui OSOM hCG Combo Test	2	2	-
Stanbio QUPID Plus	2	2	-

Serum hCG – Quantitative (mIU/mL)

	Specimen HCG-11						**Specimen HCG-12**					
Method	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	13	173.3	24.7	14.3	163	123 - 223	13	1.3	0.6	48.2	1	0 - 3
	Specimen HCG-13						**Specimen HCG-14**					
All Method	12	1182.4	276.7	23.4	1115	628 - 1736	13	1.3	0.6	48.2	1	0 - 3
	Specimen HCG-15											
All Method	12	3275.5	821.4	25.1	2888	1632 - 4919						

Cholesterol, Total (mg/dL)

	Specimen CH-11						Specimen CH-12					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	136	163.8	6.4	3.9	165	147 - 181	135	110.7	6.1	5.5	112	99 - 122
All Alfa Wassermann Reagents	12	166.5	4.0	2.4	166	149 - 184	12	115.1	2.4	2.0	115	103 - 127
All Horiba Pentra Reagents	13	164.1	5.0	3.0	164	147 - 181	13	112.8	3.5	3.1	112	101 - 125
All Roche Reagents	10	164.4	6.1	3.7	164	147 - 181	10	113.0	4.2	3.7	113	101 - 125
Alere Cholestech LDX												
Alere Cholestech LDX - waived	35	159.3	7.4	4.6	158	143 - 176	35	103.4	3.8	3.7	103	93 - 114
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	12	166.5	4.0	2.4	166	149 - 184	12	115.1	2.4	2.0	115	103 - 127
Beckman AU												
Beckman AU systems	17	165.4	3.6	2.1	165	148 - 182	17	113.2	2.7	2.4	112	101 - 125
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	164.1	5.0	3.0	164	147 - 181	13	112.8	3.5	3.1	112	101 - 125
Roche Integra												
Roche Integra	5	160.8	5.4	3.4	159	144 - 177	5	110.6	4.3	3.9	109	99 - 122
Siemens Healthcare												
Siemens Dimension	18	168.2	3.5	2.1	168	151 - 185	18	115.9	3.0	2.6	116	104 - 128
All Chemistry Instruments	20	166.5	6.3	3.8	168	149 - 184	20	114.5	5.2	4.5	116	103 - 126
VITROS												
VITROS 250,350,400 500,700,750,950	9	164.3	6.3	3.8	166	147 - 181	9	111.0	3.7	3.3	111	99 - 123
All Chemistry Instruments	15	164.9	5.1	3.1	166	148 - 182	15	109.5	3.6	3.3	108	98 - 121

Cholesterol, Total (mg/dL)

	Specimen CH-13						Specimen CH-14					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	102	149.1	4.0	2.7	149	134 - 165	103	215.7	6.3	2.9	215	194 - 238
All Alfa Wassermann Reagents	12	150.0	3.1	2.0	150	135 - 165	12	215.5	5.5	2.5	215	193 - 238
All Horiba Pentra Reagents	13	147.8	4.8	3.2	148	133 - 163	13	212.1	7.1	3.3	212	190 - 234
All Roche Reagents	10	148.1	4.7	3.2	149	133 - 163	10	213.2	7.6	3.6	216	191 - 235
Alere Cholestech LDX												
Alere Cholestech LDX - waived	3	-	-	-	144	134 - 165	3	-	-	-	217	194 - 238
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	12	150.0	3.1	2.0	150	135 - 165	12	215.5	5.5	2.5	215	193 - 238
Beckman AU												
Beckman AU systems	17	148.6	2.5	1.7	149	133 - 164	17	214.2	3.3	1.5	214	192 - 236
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	147.8	4.8	3.2	148	133 - 163	13	212.1	7.1	3.3	212	190 - 234
Roche Integra												
Roche Integra	5	145.0	4.1	2.8	145	130 - 160	5	207.6	6.1	2.9	206	186 - 229
Siemens Healthcare												
Siemens Dimension	19	151.3	3.5	2.3	152	136 - 167	19	217.5	4.7	2.2	218	195 - 240
All Chemistry Instruments	20	150.5	4.9	3.2	152	135 - 166	20	216.7	5.9	2.7	218	194 - 239
VITROS												
VITROS 250,350,400 500,700,750,950	9	148.1	5.9	4.0	150	133 - 163	9	218.6	7.8	3.6	215	196 - 241
All Chemistry Instruments	15	148.0	4.8	3.2	147	133 - 163	15	220.8	7.1	3.2	224	198 - 243

Cholesterol, Total (mg/dL)

Specimen CH-15

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	103	182.3	5.2	2.8	182	164 - 201
All Alfa Wassermann Reagents	12	184.3	4.4	2.4	184	165 - 203
All Horiba Pentra Reagents	13	178.6	5.5	3.1	180	160 - 197
All Roche Reagents	10	179.8	6.3	3.5	182	161 - 198
Alere Cholestech LDX						
Alere Cholestech LDX - waived	3	-	-	-	182	164 - 201
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	12	184.3	4.4	2.4	184	165 - 203
Beckman AU						
Beckman AU systems	17	181.9	4.7	2.6	181	163 - 201
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	13	178.6	5.5	3.1	180	160 - 197
Roche Integra						
Roche Integra	5	175.0	4.7	2.7	174	157 - 193
Siemens Healthcare						
Siemens Dimension	19	184.1	3.3	1.8	185	165 - 203
All Chemistry Instruments	20	183.6	3.8	2.0	184	165 - 202
VITROS						
VITROS 250,350,400 500,700,750,950	9	183.9	6.3	3.4	182	165 - 203
All Chemistry Instruments	15	184.2	5.3	2.9	183	165 - 203

LDL Cholesterol - Calculated (mg/dL)

Method	Specimen CH-11 Labs	Mean	SD	CV	Median	Range	Specimen CH-12 Labs	Mean	SD	CV	Median	Range
All Method	98	53.6	11.1	20.8	53	31 - 76	84	37.2	9.6	25.9	39	17 - 57
Calculated-Trig/5												
Alere Cholestech LDX - waived	32	52.8	8.0	15.2	53	36 - 69	19	42.4	5.9	13.9	42	29 - 56
Alfa Wassermann ACE Alera/Axcel	8	60.3	5.8	9.5	58	42 - 79	8	40.5	4.5	11.1	40	28 - 53
Beckman AU systems	11	56.8	5.5	9.6	56	39 - 74	11	39.8	3.8	9.5	39	27 - 52
Horiba ABX Pentra 400 / C400	9	63.0	9.7	15.5	63	43 - 83	9	41.1	12.8	31.1	43	15 - 67
Siemens Dimension	11	42.6	5.6	13.2	43	29 - 56	11	27.0	3.9	14.5	27	18 - 36
VITROS 250,350,400 500,700,750,950	5	43.2	13.3	30.7	43	16 - 70	5	29.6	7.8	26.5	28	13 - 46
All Chemistry Instruments	94	53.7	11.1	20.7	54	31 - 76	80	37.4	9.6	25.8	39	18 - 57

Method	Specimen CH-13 Labs	Mean	SD	CV	Median	Range	Specimen CH-14 Labs	Mean	SD	CV	Median	Range
All Method	68	48.5	10.3	21.2	50	27 - 70	65	69.1	14.5	21.1	69	39 - 99
Calculated-Trig/5												
Alere Cholestech LDX - waived	3	-	-	-	51	28 - 70	-	-	-	-	-	Not graded
Alfa Wassermann ACE Alera/Axcel	8	52.8	3.8	7.3	54	36 - 69	8	75.9	7.8	10.2	74	53 - 99
Beckman AU systems	11	51.3	4.0	7.8	52	35 - 67	11	70.6	9.3	13.1	72	49 - 92
Horiba ABX Pentra 400 / C400	9	58.1	8.5	14.6	56	40 - 76	9	83.6	11.7	14.0	83	58 - 109
Siemens Dimension	11	39.2	2.9	7.3	38	27 - 51	11	59.5	3.6	6.1	58	41 - 78
VITROS 250,350,400 500,700,750,950	5	40.0	11.0	27.4	41	18 - 62	5	53.6	19.0	35.5	51	15 - 92
All Chemistry Instruments	64	48.8	10.2	20.9	50	28 - 70	61	69.6	14.4	20.8	70	40 - 99

Method	Specimen CH-15 Labs	Mean	SD	CV	Median	Range
All Method	68	58.6	12.2	20.9	59	34 - 84
Calculated-Trig/5						
Alere Cholestech LDX - waived	3	-	-	-	62	34 - 84
Alfa Wassermann ACE Alera/Axcel	8	66.8	2.5	3.7	68	46 - 87
Beckman AU systems	11	61.4	8.0	13.1	61	42 - 80
Horiba ABX Pentra 400 / C400	9	68.7	11.2	16.3	67	46 - 92
Siemens Dimension	11	48.6	3.3	6.8	49	34 - 64
VITROS 250,350,400 500,700,750,950	5	49.2	11.6	23.7	46	25 - 73
All Chemistry Instruments	64	59.0	12.1	20.5	60	34 - 84

LDL Cholesterol - Direct (mg/dL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	32	53.8	13.4	24.8	53	27 - 81	32	34.5	9.7	28.0	34	15 - 54
Beckman AU Direct HDL / LDL												
Beckman AU systems	9	39.9	2.9	7.2	40	27 - 52	9	24.0	1.3	5.5	24	16 - 32
Siemens Automated LDL												
Siemens Dimension	9	57.8	5.0	8.6	57	40 - 76	9	37.7	3.2	8.6	38	26 - 49
	Specimen CH-13						**Specimen CH-14**					
All Method	32	47.6	12.5	26.2	47	22 - 73	32	72.2	16.9	23.5	70	38 - 107
Beckman AU Direct HDL / LDL												
Beckman AU systems	9	34.3	1.9	5.4	35	24 - 45	9	55.3	2.1	3.7	56	38 - 72
Siemens Automated LDL												
Siemens Dimension	9	51.1	3.6	6.9	51	35 - 67	9	76.0	4.6	6.1	75	53 - 99
	Specimen CH-15											
All Method	32	59.6	14.8	24.8	59	30 - 90						
Beckman AU Direct HDL / LDL												
Beckman AU systems	9	43.8	1.9	4.4	45	30 - 57						
Siemens Automated LDL												
Siemens Dimension	9	63.1	4.9	7.7	61	44 - 83						

Cholesterol, HDL (mg/dL)

	Specimen CH-11						Specimen CH-12					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	131	74.4	9.6	12.9	73	52 - 97	132	48.9	9.9	20.2	48	34 - 64
All Dex-Sulfate 50,000 MW Methods	32	70.8	6.2	8.8	72	49 - 93	32	38.3	4.8	12.5	39	26 - 50
All Direct Methods	83	74.8	10.7	14.4	72	52 - 98	83	51.9	9.2	17.8	49	36 - 68
Alere Cholestech LDX												
Alere Cholestech LDX - waived	32	70.8	6.2	8.8	72	49 - 93	32	38.3	4.8	12.5	39	26 - 50
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	12	67.9	5.0	7.3	70	47 - 89	12	47.8	3.3	6.9	49	33 - 63
All Chemistry Instruments	13	68.3	5.0	7.3	70	47 - 89	13	47.9	3.2	6.7	49	33 - 63
Beckman AU Direct HDL / LDL												
Beckman AU systems	15	71.1	3.8	5.4	72	49 - 93	15	47.6	2.9	6.0	48	33 - 62
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	64.8	7.1	11.0	66	45 - 85	13	43.5	4.6	10.5	44	30 - 57
Roche HDL Direct												
All Chemistry Instruments	9	85.4	2.8	3.3	85	59 - 112	9	59.1	2.4	4.1	58	41 - 77
Siemens Automated HDL												
Siemens Dimension	18	89.4	2.6	3.0	89	62 - 117	18	65.7	2.2	3.4	66	46 - 86
All Chemistry Instruments	19	89.4	2.6	2.9	89	62 - 117	19	65.6	2.3	3.5	66	45 - 86
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	8	79.4	6.4	8.1	81	55 - 104	8	54.1	3.8	6.9	55	37 - 71
All Chemistry Instruments	13	80.2	5.1	6.4	82	56 - 105	13	54.8	3.2	5.8	55	38 - 72

Cholesterol, HDL (mg/dL)

	Specimen CH-13						Specimen CH-14					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	102	68.1	9.5	14.0	66	47 - 89	101	99.1	11.7	11.8	99	69 - 129
All Dex-Sulfate 50,000 MW Methods	3	-	-	-	60	42 - 79	3	-	-	-	100	70 - 130
All Direct Methods	83	67.9	10.1	14.9	65	47 - 89	82	97.4	11.5	11.9	95	68 - 127
Alere Cholestech LDX												
Alere Cholestech LDX - waived	3	-	-	-	60	47 - 89	3	-	-	-	100	69 - 129
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	12	62.5	3.8	6.0	64	43 - 82	12	88.2	6.1	7.0	89	61 - 115
All Chemistry Instruments	13	62.6	3.6	5.8	64	43 - 82	13	88.8	6.3	7.1	89	62 - 116
Beckman AU Direct HDL / LDL												
Beckman AU systems	15	64.2	4.3	6.7	63	44 - 84	15	94.0	5.1	5.4	93	65 - 123
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	57.8	5.8	10.1	58	40 - 76	13	84.5	8.8	10.4	87	59 - 110
Roche HDL Direct												
All Chemistry Instruments	9	77.6	2.7	3.4	76	54 - 101	9	109.1	3.6	3.3	108	76 - 142
Siemens Automated HDL												
Siemens Dimension	18	82.0	2.2	2.7	83	57 - 107	18	112.1	3.5	3.1	113	78 - 146
All Chemistry Instruments	19	81.9	2.2	2.7	82	57 - 107	19	111.9	3.4	3.1	112	78 - 146
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	8	71.1	5.1	7.1	71	49 - 93	8	108.6	9.3	8.5	106	76 - 142
All Chemistry Instruments	13	71.3	4.1	5.7	71	49 - 93	13	108.8	8.2	7.5	106	76 - 142

Cholesterol, HDL (mg/dL)

Specimen CH-15

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	101	83.9	10.1	12.0	82	58 - 110
All Dex-Sulfate 50,000 MW Methods	3	-	-	-	82	56 - 104
All Direct Methods	82	82.9	10.4	12.6	79	57 - 108
Alere Cholestech LDX						
Alere Cholestech LDX - waived	3	-	-	-	82	58 - 110
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	12	74.7	3.1	4.1	75	52 - 98
All Chemistry Instruments	13	75.2	3.4	4.6	75	52 - 98
Beckman AU Direct HDL / LDL						
Beckman AU systems	15	79.1	4.9	6.2	79	55 - 103
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	13	71.4	7.8	11.0	72	49 - 93
Roche HDL Direct						
All Chemistry Instruments	9	93.4	2.7	2.9	93	65 - 122
Siemens Automated HDL						
Siemens Dimension	18	96.9	1.8	1.9	97	67 - 126
All Chemistry Instruments	19	96.8	1.8	1.9	97	67 - 126
VITROS dHDL Slide						
VITROS 250,350,400 500,700,750,950	8	90.8	5.0	5.5	92	63 - 118
All Chemistry Instruments	13	90.8	4.3	4.7	92	63 - 119

Triglycerides (mg/dL)

	Specimen CH-11						Specimen CH-12					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	133	182.8	12.2	6.7	180	137 - 229	133	125.5	9.0	7.2	125	94 - 157
All Alfa Wassermann Reagents	12	190.0	6.3	3.3	190	142 - 238	12	134.7	4.3	3.2	135	101 - 169
All Horiba Pentra Reagents	13	185.5	6.2	3.3	186	139 - 232	13	128.8	6.7	5.2	130	96 - 162
All Roche Reagents	10	184.1	6.6	3.6	184	138 - 231	10	128.7	4.2	3.2	129	96 - 161
Alere Cholestech LDX												
Alere Cholestech LDX - waived	33	171.3	6.0	3.5	171	128 - 215	33	116.3	4.2	3.6	117	87 - 146
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	12	190.0	6.3	3.3	190	142 - 238	12	134.7	4.3	3.2	135	101 - 169
Beckman AU												
Beckman AU systems	17	188.9	4.9	2.6	189	141 - 237	17	130.2	3.0	2.3	131	97 - 163
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	185.5	6.2	3.3	186	139 - 232	13	128.8	6.7	5.2	130	96 - 162
Roche Integra												
Roche Integra	5	184.6	8.0	4.3	187	138 - 231	5	129.6	5.3	4.1	131	97 - 162
Siemens Healthcare												
Siemens Dimension	19	176.5	3.4	1.9	177	132 - 221	19	118.9	2.3	2.0	119	89 - 149
All Chemistry Instruments	20	177.1	4.2	2.4	177	132 - 222	20	119.3	2.8	2.3	119	89 - 150
VITROS												
VITROS 250,350,400 500,700,750,950	9	208.0	4.8	2.3	209	156 - 260	9	141.6	4.2	3.0	142	106 - 177
All Chemistry Instruments	15	205.6	4.8	2.3	203	154 - 257	15	139.5	4.2	3.0	139	104 - 175

Triglycerides (mg/dL)

	Specimen CH-13						Specimen CH-14					
Reagent/Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	103	167.9	10.7	6.4	168	125 - 210	103	240.2	16.3	6.8	238	180 - 301
All Alfa Wassermann Reagents	12	173.3	4.6	2.7	175	129 - 217	12	243.5	6.3	2.6	244	182 - 305
All Horiba Pentra Reagents	13	166.2	6.1	3.7	166	124 - 208	13	235.2	8.0	3.4	238	176 - 295
All Roche Reagents	10	166.7	5.4	3.2	168	125 - 209	10	234.8	8.2	3.5	235	176 - 294
Alere Cholestech LDX												
Alere Cholestech LDX - waived	3	-	-	-	153	125 - 210	3	-	-	-	228	180 - 301
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	12	173.3	4.6	2.7	175	129 - 217	12	243.5	6.3	2.6	244	182 - 305
Beckman AU												
Beckman AU systems	17	170.9	3.3	1.9	171	128 - 214	16	242.5	5.7	2.4	243	181 - 304
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	13	166.2	6.1	3.7	166	124 - 208	13	235.2	8.0	3.4	238	176 - 295
Roche Integra												
Roche Integra	5	168.6	6.5	3.9	169	126 - 211	5	236.4	10.9	4.6	238	177 - 296
Siemens Healthcare												
Siemens Dimension	19	158.6	2.8	1.7	159	118 - 199	19	230.9	4.1	1.8	231	173 - 289
All Chemistry Instruments	20	159.2	3.6	2.2	159	119 - 199	20	231.5	4.7	2.0	231	173 - 290
VITROS												
VITROS 250,350,400 500,700,750,950	9	187.9	4.7	2.5	188	140 - 235	9	274.2	6.9	2.5	275	205 - 343
All Chemistry Instruments	15	185.7	4.9	2.7	185	139 - 233	15	271.1	6.9	2.6	270	203 - 339

Triglycerides (mg/dL)

Specimen CH-15

Reagent/Instrument	*Labs*	*Mean*	*SD*	*CV*	*Median*	*Range*
All Method	102	204.7	12.6	6.2	204	153 - 256
All Alfa Wassermann Reagents	12	206.9	6.7	3.2	207	155 - 259
All Horiba Pentra Reagents	13	204.2	9.7	4.7	203	153 - 256
All Roche Reagents	10	202.1	6.6	3.3	201	151 - 253
Alere Cholestech LDX						
Alere Cholestech LDX - waived	3	-	-	-	191	153 - 256
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	12	206.9	6.7	3.2	207	155 - 259
Beckman AU						
Beckman AU systems	16	206.8	4.5	2.2	208	155 - 259
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	13	204.2	9.7	4.7	203	153 - 256
Roche Integra						
Roche Integra	5	202.6	8.6	4.3	202	151 - 254
Siemens Healthcare						
Siemens Dimension	19	194.4	4.2	2.1	194	145 - 243
All Chemistry Instruments	20	195.0	4.8	2.5	194	146 - 244
VITROS						
VITROS 250,350,400 500,700,750,950	9	230.4	5.1	2.2	231	172 - 289
All Chemistry Instruments	15	227.5	5.6	2.4	227	170 - 285

Acetaminophen (µg/mL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	4	-	-	-	66.2	Not graded	4	-	-	-	31.5	Not graded
	Specimen CH-13						**Specimen CH-14**					
All Method	4	-	-	-	66.3	Not graded	4	-	-	-	101.9	Not graded
	Specimen CH-15											
All Method	4	-	-	-	83.1	Not graded						

Carbamazepine (µg/mL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	4	-	-	-	9.5	Not graded	4	-	-	-	5.7	Not graded
	Specimen CH-13						**Specimen CH-14**					
All Method	4	-	-	-	8.2	Not graded	4	-	-	-	12.3	Not graded
	Specimen CH-15											
All Method	4	-	-	-	10.8	Not graded						

Digoxin (ng/mL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	4	-	-	-	1.40	Not graded	4	-	-	-	0.72	Not graded
	Specimen CH-13						**Specimen CH-14**					
All Method	4	-	-	-	1.32	Not graded	4	-	-	-	2.16	Not graded
	Specimen CH-15											
All Method	4	-	-	-	1.64	Not graded						

Gentamicin (µg/mL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	4	-	-	-	7.14	Not graded	4	-	-	-	10.56	Not graded
	Specimen CH-13						**Specimen CH-14**					
All Method	4	-	-	-	8.70	Not graded	4	-	-	-	11.56	Not graded
	Specimen CH-15											
All Method	4	-	-	-	5.62	Not graded						

Lithium (mmol/L)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	4	-	-	-	1.3	Not graded	4	-	-	-	0.7	Not graded
	Specimen CH-13						**Specimen CH-14**					
All Method	4	-	-	-	1.1	Not graded	4	-	-	-	1.9	Not graded
	Specimen CH-15											
All Method	4	-	-	-	1.5	Not graded						

Phenobarbital (µg/mL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	23.8	Not graded	3	-	-	-	11.8	Not graded
	Specimen CH-13						**Specimen CH-14**					
All Method	3	-	-	-	20.6	Not graded	3	-	-	-	34.6	Not graded
	Specimen CH-15											
All Method	3	-	-	-	27.1	Not graded						

Phenytoin (µg/mL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	4	-	-	-	17.0	Not graded	4	-	-	-	10.7	Not graded
	Specimen CH-13						**Specimen CH-14**					
All Method	4	-	-	-	16.2	Not graded	4	-	-	-	22.7	Not graded
	Specimen CH-15											
All Method	4	-	-	-	18.9	Not graded						

Salicylate (mg/dL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	4	-	-	-	23.8	Not graded	4	-	-	-	13.3	Not graded
	Specimen CH-13						**Specimen CH-14**					
All Method	4	-	-	-	19.4	Not graded	4	-	-	-	33.6	Not graded
	Specimen CH-15											
All Method	4	-	-	-	26.2	Not graded						

Theophylline (µg/mL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	23.1	Not graded	3	-	-	-	13.8	Not graded
	Specimen CH-13						**Specimen CH-14**					
All Method	3	-	-	-	19.2	Not graded	3	-	-	-	26.4	Not graded
	Specimen CH-15											
All Method	3	-	-	-	26.1	Not graded						

Valproic Acid (µg/mL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	4	-	-	-	83.4	Not graded	4	-	-	-	52.4	Not graded
	Specimen CH-13						**Specimen CH-14**					
All Method	4	-	-	-	72.2	Not graded	4	-	-	-	112.3	Not graded
	Specimen CH-15											
All Method	4	-	-	-	95.2	Not graded						

Vancomycin (µg/mL)

	Specimen CH-11						Specimen CH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	4	-	-	-	23.7	Not graded	4	-	-	-	10.7	Not graded
	Specimen CH-13						**Specimen CH-14**					
All Method	4	-	-	-	19.7	Not graded	4	-	-	-	37.3	Not graded
	Specimen CH-15											
All Method	4	-	-	-	28.2	Not graded						

Blood Lead (µg/dL)

	Specimen LED-5						Specimen LED-6					
Instrument	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	13	7.10	0.78	11.0	7.2	3.1 - 11.1	13	20.02	2.77	13.8	20.0	16.0 - 24.1
All Magellan Diagnostics Methods	13	7.10	0.78	11.0	7.2	3.1 - 11.1	13	20.02	2.77	13.8	20.0	16.0 - 24.1
Magellan Diagnostics LeadCare II	13	7.10	0.78	11.0	7.2	3.1 - 11.1	13	20.02	2.77	13.8	20.0	16.0 - 24.1

Neonatal Bilirubin, Total (mg/dL)

Method	Specimen NB-11 Labs	Mean	SD	CV	Median	Range	Specimen NB-12 Labs	Mean	SD	CV	Median	Range
All Method	19	5.46	0.43	7.9	5.4	4.3 - 6.6	19	10.05	0.75	7.4	10.0	8.0 - 12.1
No Reagent Required												
Bilirubinometer / Reichart UNISTAT	12	5.43	0.42	7.7	5.4	4.3 - 6.6	12	10.27	0.73	7.1	10.2	8.2 - 12.4
All Chemistry Instruments	16	5.47	0.46	8.4	5.5	4.3 - 6.6	16	10.18	0.71	7.0	10.1	8.1 - 12.3

Method	Specimen NB-13 Labs	Mean	SD	CV	Median	Range	Specimen NB-14 Labs	Mean	SD	CV	Median	Range
All Method	19	17.25	0.89	5.2	17.2	13.7 - 20.7	19	0.12	0.21	182.7	0.0	0.0 - 0.6
No Reagent Required												
Bilirubinometer / Unistat	12	17.64	0.67	3.8	17.4	14.1 - 21.2	12	0.00	0.01	0.0	0.0	0.0 - 0.4
All Chemistry Instruments	16	17.27	0.95	5.5	17.2	13.8 - 20.8	16	0.13	0.23	183.6	0.0	0.0 - 0.6

Method	Specimen NB-15 Labs	Mean	SD	CV	Median	Range
All Method	19	14.60	0.82	5.6	14.7	11.6 - 17.6
No Reagent Required						
Bilirubinometer / Unistat	12	14.83	0.71	4.8	14.8	11.8 - 17.8
All Chemistry Instruments	16	14.75	0.78	5.3	14.8	11.8 - 17.7

Bilirubin, Direct (mg/dL)

Method	Specimen NB-11 Labs	Mean	SD	CV	Median	Range	Specimen NB-12 Labs	Mean	SD	CV	Median	Range
All Method	7	0.99	0.29	29.5	0.9	0.4 - 1.6	7	3.67	0.60	16.5	3.6	2.4 - 4.9

Method	Specimen NB-13 Labs	Mean	SD	CV	Median	Range	Specimen NB-14 Labs	Mean	SD	CV	Median	Range
All Method	7	3.16	0.63	19.9	3.0	1.8 - 4.5	7	0.09	0.15	170.8	0.0	0.0 - 0.4

Method	Specimen NB-15 Labs	Mean	SD	CV	Median	Range
All Method	7	4.44	0.73	16.5	4.3	2.9 - 6.0

Blood Gases – pH

	Specimen BG-11						Specimen BG-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	7.165	0.024	0.3	7.18	7.12 - 7.21	12	7.468	0.019	0.3	7.48	7.42 - 7.51
i-STAT	10	7.177	0.006	0.1	7.18	7.13 - 7.22	10	7.477	0.006	0.1	7.48	7.43 - 7.52
	Specimen BG-13						**Specimen BG-14**					
All Method	12	7.150	0.022	0.3	7.16	7.11 - 7.19	12	7.288	0.021	0.3	7.29	7.24 - 7.33
i-STAT	10	7.160	0.010	0.1	7.16	7.12 - 7.20	10	7.297	0.012	0.2	7.29	7.25 - 7.34
	Specimen BG-15											
All Method	12	7.485	0.017	0.2	7.49	7.44 - 7.53						
i-STAT	10	7.493	0.006	0.1	7.49	7.45 - 7.54						

Blood Gases - pCO_2 (mmHg)

	Specimen BG-11						Specimen BG-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	61.45	4.73	7.7	59.4	56.4 - 66.5	12	25.53	3.22	12.6	25.2	20.5 - 30.6
i-STAT	10	59.10	0.70	1.2	58.8	54.1 - 64.1	10	24.13	1.98	8.2	24.5	19.1 - 29.2
	Specimen BG-13						**Specimen BG-14**					
All Method	12	67.25	5.06	7.5	65.5	61.8 - 72.7	12	22.18	1.47	6.6	21.8	17.1 - 27.2
i-STAT	10	64.83	1.81	2.8	64.1	59.6 - 70.1	10	21.50	0.70	3.3	21.2	16.5 - 26.5
	Specimen BG-15											
All Method	12	29.58	2.50	8.5	29.2	24.5 - 34.6						
i-STAT	10	28.43	1.25	4.4	29.0	23.4 - 33.5						

Blood Gases - pO_2 (mmHg)

	Specimen BG-11						Specimen BG-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	79.20	10.41	13.1	83.5	47.9 - 110.5	12	144.75	8.26	5.7	145.5	119.9 - 169.6
i-STAT	10	84.33	2.08	2.5	85.0	78.0 - 90.6	10	143.00	9.17	6.4	141.0	115.5 - 170.5
	Specimen BG-13						**Specimen BG-14**					
All Method	12	85.90	5.61	6.5	88.0	69.0 - 102.8	12	171.25	11.79	6.9	170.0	135.8 - 206.7
i-STAT	10	88.67	1.15	1.3	88.0	85.2 - 92.2	10	169.33	13.65	8.1	163.0	128.3 - 210.3
	Specimen BG-15											
All Method	12	115.25	6.55	5.7	112.5	95.5 - 135.0						
i-STAT	10	116.00	7.81	6.7	112.0	92.5 - 139.5						

Blood Gases – Ionized Calcium (mmol/L)

One participant reported results for Blood Gases-Ionized Calcium. The vendor mean assay values for specimens BG-11 through BG-15 are: 2.00 mmol/L, 1.10 mmol/L, 2.10 mmol/L, 0.80 mmol/L, and 0.90 mmol/L, respectively.

Blood Gases - Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-11 through BG-15 are: 76 mmol/L, 83 mmol/L, 87 mmol/L, 109 mmol/L, and 108 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-11 through BG-15 are: 2.7 mmol/L, 4.2 mmol/L, 3.8 mmol/L, 6.1 mmol/L, and 6.5 mmol/L, respectively.

Blood Gases – Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-11 through BG-15 are: 125 mmol/L, 146 mmol/L, 140 mmol/L, 145 mmol/L, and 160 mmol/L, respectively.

Blood Gases – Lactate (mmol/L)

Method	Specimen BG-11 Labs	Mean	SD	CV	Median	Range	Specimen BG-12 Labs	Mean	SD	CV	Median	Range
All Method	6	5.23	1.18	22.6	4.6	1.6 - 8.8	6	1.80	0.69	38.5	1.4	0.0 - 3.9
i-STAT	5	4.55	0.07	1.6	4.6	4.1 - 5.0	5	1.40	0.01	0.0	1.4	1.0 - 1.8

Method	Specimen BG-13 Labs	Mean	SD	CV	Median	Range	Specimen BG-14 Labs	Mean	SD	CV	Median	Range
All Method	6	4.20	1.21	28.9	3.5	0.5 - 7.9	6	0.77	0.29	37.7	0.6	0.0 - 1.7
i-STAT	5	3.50	0.01	0.0	3.5	3.1 - 3.9	5	0.60	0.01	0.0	0.6	0.2 - 1.0

Method	Specimen BG-15 Labs	Mean	SD	CV	Median	Range
All Method	6	1.30	0.52	40.0	1.0	0.0 - 2.9
i-STAT	5	1.00	0.01	0.0	1.0	0.6 - 1.4

Afinion Glycohemoglobin (percent)

Method	Specimen AFN-5 Labs	Mean	SD	CV	Median	Range	Specimen AFN-6 Labs	Mean	SD	CV	Median	Range
All Method	78	6.05	0.12	2.0	6.0	5.5 - 6.6	77	8.13	0.16	2.0	8.1	7.4 - 8.8
All Alere Afinion Analyzers	78	6.05	0.12	2.0	6.0	5.5 - 6.6	77	8.13	0.16	2.0	8.1	7.4 - 8.8
Alere Afinion 2	25	6.09	0.12	1.9	6.1	5.6 - 6.6	24	8.18	0.16	2.0	8.2	7.5 - 8.9
Alere Afinion AS100	52	6.02	0.10	1.7	6.0	5.5 - 6.6	52	8.11	0.15	1.8	8.1	7.4 - 8.8

Glycohemoglobin (percent)

	Specimen GH-5						Specimen GH-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	102	5.12	0.22	4.2	5.1	4.7 - 5.6	102	7.01	0.22	3.2	7.0	6.4 - 7.6
All Bio-Rad Methods	5	5.20	0.26	5.1	5.1	4.7 - 5.7	5	6.93	0.23	3.3	6.8	6.3 - 7.5
All Enzymatic A1c Methods	5	4.86	0.36	7.5	4.7	4.4 - 5.3	6	6.62	0.49	7.4	6.6	6.0 - 7.2
All Hemoglobin A1c Methods	81	5.14	0.18	3.6	5.1	4.7 - 5.6	82	7.02	0.20	2.8	7.0	6.4 - 7.6
All Roche Methods	7	4.97	0.14	2.8	4.9	4.5 - 5.4	7	7.04	0.13	1.8	7.1	6.4 - 7.7
All TOSOH Methods	13	5.35	0.13	2.4	5.3	4.9 - 5.8	14	6.91	0.15	2.2	7.0	6.3 - 7.5
Beckman AU A1c	5	5.10	0.16	3.1	5.1	4.6 - 5.6	5	6.96	0.15	2.2	6.9	6.4 - 7.6
Bio-Rad D-10 HbA1C	5	5.20	0.26	5.1	5.1	4.7 - 5.7	5	6.93	0.23	3.3	6.8	6.3 - 7.5
Roche cobas c501 HbA1c	5	4.90	0.10	2.0	4.9	4.5 - 5.3	3	7.10	0.10	1.4	7.1	6.5 - 7.7
Roche Integra A1C	5	5.03	0.15	3.0	5.0	4.6 - 5.5	5	7.00	0.14	2.0	7.1	6.4 - 7.6
Siemens DCA Vantage	36	5.10	0.13	2.6	5.1	4.6 - 5.6	36	7.10	0.20	2.8	7.1	6.5 - 7.7
Siemens Dimension HA1C	10	5.05	0.14	2.7	5.1	4.6 - 5.5	10	6.90	0.16	2.3	6.9	6.3 - 7.5
Siemens Dimension HB1C	5	5.10	0.17	3.4	5.0	4.6 - 5.6	5	6.90	0.17	2.5	6.8	6.3 - 7.5
TOSOH G8	13	5.35	0.13	2.4	5.3	4.9 - 5.8	14	6.91	0.15	2.2	7.0	6.3 - 7.5

Whole Blood Glucose (mg/dL)

	Specimen WBG-11						Specimen WBG-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	293	105.1	16.4	15.6	103	84 - 127	287	329.2	32.6	9.9	337	263 - 395
All Abbott Methods	43	94.8	6.9	7.2	95	75 - 114	43	323.4	25.9	8.0	327	258 - 389
All Arkray Methods	13	126.2	4.4	3.5	126	100 - 152	11	360.2	11.3	3.1	360	288 - 433
All Bayer Methods	17	85.2	8.0	9.4	83	68 - 103	18	272.3	25.5	9.4	272	217 - 327
All Hemocue Methods	53	128.4	6.0	4.7	129	102 - 155	56	348.0	9.0	2.6	348	278 - 418
All Lifescan Methods	6	107.5	5.3	4.9	107	86 - 129	6	382.5	65.2	17.1	356	306 - 459
All Roche Methods	24	110.5	4.9	4.5	112	88 - 133	25	352.0	10.9	3.1	353	281 - 423
Abbott FreeStyle Lite/Freedom Lite	6	99.5	2.5	2.5	100	79 - 120	6	336.0	11.5	3.4	333	268 - 404
Abbott FreeStyle Precision Pro	27	94.5	7.3	7.7	95	75 - 114	27	323.7	27.9	8.6	317	258 - 389
Abbott Precision XceedPro	8	94.0	6.8	7.2	93	75 - 113	8	320.5	25.2	7.9	320	256 - 385
Arkray Platinum	13	126.2	4.4	3.5	126	100 - 152	11	360.2	11.3	3.1	360	288 - 433
Bayer Contour / Plus	15	83.9	7.6	9.0	83	67 - 101	16	267.6	22.9	8.5	266	214 - 322
HemoCue Glucose 201	52	128.3	6.0	4.7	129	102 - 154	55	348.1	9.1	2.6	348	278 - 418
Home Diagnostics True Balance / TrueTrack	5	280.2	15.7	5.6	279	224 - 337	5	551.0	47.5	8.6	568	440 - 662
Lifescan One Touch Ultra/2/Mini	6	107.5	5.3	4.9	107	86 - 129	6	382.5	65.2	17.1	356	306 - 459
Medline EvenCare G2 / G3	25	114.8	11.1	9.7	114	91 - 138	23	296.1	21.1	7.1	297	236 - 356
NOVA Biomedical StatStrip	27	89.2	4.9	5.5	89	71 - 108	27	292.5	14.0	4.8	291	233 - 351
Quintet / AC	25	105.3	4.1	3.9	106	84 - 127	25	369.4	19.8	5.4	372	295 - 444
Roche Accu-Chek Inform II	6	111.8	3.8	3.4	113	89 - 135	6	357.0	6.0	1.7	359	285 - 429
Roche Accu-Chek Performa	13	111.8	1.6	1.5	112	89 - 135	12	354.3	7.3	2.1	355	283 - 426
True Metrix Pro	49	91.9	4.6	5.0	91	73 - 111	50	326.7	17.1	5.2	327	261 - 392

Whole Blood Glucose (mg/dL)

	Specimen WBG-13						Specimen WBG-14					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	18	403.4	12.0	3.0	405	322 - 485	19	301.7	21.4	7.1	298	241 - 363
All Lifescan Methods	3	-	-	-	405	323 - 486	3	-	-	-	328	260 - 391
All Roche Methods	5	417.2	4.2	1.0	416	333 - 501	5	323.0	5.9	1.8	320	258 - 388
Lifescan One Touch Ultra/2/Mini	3	-	-	-	405	322 - 485	3	-	-	-	328	241 - 363
Roche Accu-Chek Inform II	1	-	-	-	423	333 - 501	1	-	-	-	332	258 - 388
Roche Accu-Chek Performa	4	-	-	-	415	333 - 501	4	-	-	-	320	258 - 388
True Metrix Pro	10	391.1	18.3	4.7	391	312 - 470	10	283.2	8.0	2.8	280	226 - 340

	Specimen WBG-15					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	19	191.7	16.3	8.5	186	153 - 231
All Lifescan Methods	3	-	-	-	209	166 - 251
All Roche Methods	5	209.4	3.3	1.6	210	167 - 252
Lifescan One Touch Ultra/2/Mini	3	-	-	-	209	153 - 231
Roche Accu-Chek Inform II	1	-	-	-	214	167 - 252
Roche Accu-Chek Performa	4	-	-	-	209	167 - 252
True Metrix Pro	10	178.5	7.1	4.0	178	142 - 215

C-Peptide (ng/mL)

	Specimen CIP-5						Specimen CIP-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	6.856	1.056	15.4	7.00	4.74 - 8.97	5	0.524	0.121	23.1	0.52	0.28 - 0.77

Insulin (μU/mL)

	Specimen CIP-5						Specimen CIP-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	13	96.12	29.80	31.0	114.4	36.5 - 155.8	13	13.10	3.14	24.0	14.5	6.8 - 19.4
All TOSOH Instruments	5	270.60	6.22	2.3	270.6	258.1 - 283.1	5	48.20	0.28	0.6	48.2	47.6 - 48.8
Beckman ACCESS / 2 / DxI	5	111.63	8.02	7.2	114.4	95.5 - 127.7	5	13.38	1.52	11.4	13.8	10.3 - 16.5

Parathyroid Hormone, Intact (pg/mL)

	Specimen CIP-5						Specimen CIP-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	30	195.5	41.4	21.2	184	112 - 279	30	25.4	4.7	18.4	24	16 - 35
All Roche Methods	5	135.5	11.9	8.8	136	94 - 177	5	20.0	2.6	12.9	20	14 - 26
All TOSOH Instruments	5	206.6	17.4	8.4	209	144 - 269	5	27.6	2.3	8.3	28	19 - 36
Beckman ACCESS / 2 / DxI	11	172.8	10.0	5.8	174	120 - 225	11	23.3	0.9	3.9	24	16 - 31

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

	Specimen CIP-5						Specimen CIP-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	79	68.97	10.24	14.8	68.4	48.4 - 89.5	79	16.67	4.14	24.8	16.0	8.3 - 25.0
All Roche Instruments	10	76.60	16.40	21.4	77.4	43.7 - 109.5	10	13.58	3.98	29.3	13.0	5.6 - 21.6
All TOSOH Instruments	12	69.74	4.37	6.3	70.4	60.9 - 78.5	12	23.07	2.49	10.8	23.7	18.0 - 28.1
All VITROS Instruments	6	75.22	5.88	7.8	78.5	63.4 - 87.0	6	15.88	2.32	14.6	17.0	11.2 - 20.6
Abbott Architect	7	68.40	5.67	8.3	67.8	57.0 - 79.8	7	15.34	0.99	6.5	15.4	13.3 - 17.4
Beckman ACCESS / 2 / DxI	33	69.53	7.71	11.1	68.4	54.1 - 85.0	33	14.97	2.40	16.0	15.5	10.1 - 19.8
Roche cobas e 411	5	66.82	14.73	22.0	69.7	37.3 - 96.3	5	11.36	3.07	27.1	9.8	5.2 - 17.6
Roche cobas e 601/ e 602	5	88.83	8.33	9.4	91.4	72.1 - 105.5	5	16.35	3.34	20.4	17.0	9.6 - 23.1
Siemens Dimension	5	57.13	3.25	5.7	56.7	50.6 - 63.7	5	18.80	1.95	10.4	18.7	14.8 - 22.8
TOSOH ST AIA-PACK	9	70.70	4.04	5.7	70.7	62.6 - 78.8	9	23.79	2.03	8.5	24.1	19.7 - 27.9
VITROS 5600	5	77.75	1.84	2.4	78.6	74.0 - 81.5	5	16.33	2.42	14.8	17.1	11.4 - 21.2

Bioavailable Testosterone (ng/dL)

	Specimen SHB-5						Specimen SHB-4					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	131.1	Not graded	13	-	-	-	227.6	Not graded

Free Testosterone (pg/mL)

	Specimen SHB-5						Specimen SHB-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	56.0	Not graded	13	-	-	-	146.0	Not graded

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

	Specimen SHB-5						Specimen SHB-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	37.768	5.993	15.9	38.65	19.79 - 55.75	12	76.438	7.882	10.3	75.75	52.79 - 100.09
Beckman ACCESS / 2 / DxI	10	39.378	4.041	10.3	39.00	27.25 - 51.51	10	78.868	7.038	8.9	78.00	57.75 - 99.99

Testosterone (ng/dL)

	Specimen SHB-5						Specimen SHB-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	13	281.0	18.3	6.5	275	196 - 366	13	829.1	78.6	9.5	838	580 - 1078
Beckman ACCESS / 2 / DxI	10	274.9	11.3	4.1	275	192 - 358	10	803.3	56.4	7.0	813	562 - 1045

BNP (pg/mL)

Method	Specimen CK-11 Labs	Mean	SD	CV	Median	Range	Specimen CK-12 Labs	Mean	SD	CV	Median	Range
All Method	19	81.08	33.98	41.9	57.6	13.1 - 149.1	19	572.20	222.82	38.9	436.0	126.5 - 1017.9
i-STAT - moderate	5	114.50	3.11	2.7	113.5	85.8 - 143.2	5	789.50	51.76	6.6	793.0	592.1 - 986.9
Quidel Triage	10	59.39	7.28	12.3	57.4	44.5 - 74.3	10	383.50	69.01	18.0	398.5	245.4 - 521.6

Method	Specimen CK-13 Labs	Mean	SD	CV	Median	Range	Specimen CK-14 Labs	Mean	SD	CV	Median	Range
All Method	19	2216.28	716.56	32.3	1761.6	783.1 - 3649.4	19	4057.59	1151.73	28.4	3390.5	1754.1 - 6361.1
i-STAT - moderate	5	2755.75	393.04	14.3	2857.5	1969.6 - 3541.9	5	5000.00	0.01	0.0	5000.0	3750.0 - 6250.0
Quidel Triage	10	1366.00	158.21	11.6	1410.0	1024.5 - 1707.5	10	2516.00	254.42	10.1	2570.0	1887.0 - 3145.0

Method	Specimen CK-15 Labs	Mean	SD	CV	Median	Range
All Method	19	1094.39	402.40	36.8	849.6	289.5 - 1899.2
i-STAT - moderate	5	1478.50	82.50	5.6	1483.0	1108.8 - 1848.2
Quidel Triage	10	731.20	109.40	15.0	783.0	512.3 - 950.1

CK-MB (ng/mL)

Method	Specimen CK-11 Labs	Mean	SD	CV	Median	Range	Specimen CK-12 Labs	Mean	SD	CV	Median	Range
All Method	16	6.32	1.36	21.5	2.9	2.2 - 10.4	16	15.67	3.47	22.1	7.0	5.2 - 26.1
Quidel Triage	10	2.46	0.49	19.8	2.3	1.0 - 4.0	10	6.49	0.77	11.8	6.6	4.1 - 8.8

Method	Specimen CK-13 Labs	Mean	SD	CV	Median	Range	Specimen CK-14 Labs	Mean	SD	CV	Median	Range
All Method	16	44.58	10.20	22.9	22.0	13.9 - 75.2	16	83.82	20.38	24.3	40.1	22.6 - 145.0
Quidel Triage	10	20.06	2.81	14.0	19.9	11.6 - 28.5	10	34.59	4.99	14.4	33.5	19.6 - 49.6

Method	Specimen CK-15 Labs	Mean	SD	CV	Median	Range
All Method	16	24.05	5.72	23.8	11.3	6.8 - 41.3
Quidel Triage	10	9.86	1.48	15.0	10.0	5.4 - 14.3

D-Dimer (ng/mL)

	Specimen CK-11						Specimen CK-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	13	120.7	23.4	19.4	116	73 - 168	13	297.7	66.8	22.5	305	164 - 432

	Specimen CK-13						Specimen CK-14					
All Method	13	873.2	88.8	10.2	891	611 - 1136	13	1500.0	126.3	8.4	1520	1050 - 1950

	Specimen CK-15					
All Method	13	522.8	62.1	11.9	529	365 - 680

Myoglobin (ng/mL)

	Specimen CK-11						Specimen CK-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	11	25.30	1.27	5.0	29.9	17.7 - 32.9	11	69.50	2.83	4.1	81.3	48.6 - 90.4
Quidel Triage	8	30.60	1.96	6.4	30.6	21.4 - 39.8	8	84.56	6.43	7.6	82.0	59.1 - 110.0

	Specimen CK-13						Specimen CK-14					
All Method	11	203.85	10.96	5.4	213.0	142.6 - 265.1	11	394.05	52.82	13.4	345.5	275.8 - 512.3
Quidel Triage	8	218.57	18.79	8.6	216.0	152.9 - 284.2	8	343.00	13.56	4.0	342.0	240.1 - 445.9

	Specimen CK-15					
All Method	11	108.80	9.05	8.3	119.0	76.1 - 141.5
Quidel Triage	8	120.38	8.75	7.3	122.5	84.2 - 156.5

NT-proBNP (pg/mL)

	Specimen CK-11						Specimen CK-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	35.8	23.0	64.3	35	0 - 82	12	373.0	235.7	63.2	377	0 - 845
All Roche Methods	6	55.5	4.9	8.9	56	41 - 70	6	577.0	2.8	0.5	577	432 - 722
Roche cobas e 601/ e 602	5	55.5	4.9	8.9	56	41 - 70	5	577.0	2.8	0.5	577	432 - 722
Siemens Dimension NT-proBNP	5	16.0	1.4	8.8	16	12 - 20	5	169.0	12.7	7.5	169	126 - 212
	Specimen CK-13						**Specimen CK-14**					
All Method	9	1416.0	848.7	59.9	965	0 - 3114	9	3215.7	1691.4	52.6	2311	0 - 6599
All Roche Methods	4	-	-	-	2395	1796 - 2994	4	-	-	-	5167	3875 - 6459
Siemens Dimension NT-proBNP	5	926.5	54.4	5.9	927	694 - 1159	5	2240.0	100.4	4.5	2240	1680 - 2800
	Specimen CK-15											
All Method	9	600.3	414.1	69.0	380	0 - 1429						
All Roche Methods	4	-	-	-	1078	808 - 1348						
Siemens Dimension NT-proBNP	5	361.5	26.2	7.2	362	271 - 452						

Troponin I (ng/mL)

Method	Labs	Mean	SD	CV	Median	Range
Specimen CK-11						
All Method	34	0.244	0.317	129.9	0.09	0.00 - 0.88
All HS Troponin I Methods	6	0.765	0.348	45.5	0.76	0.06 - 1.47
All Non-HS Troponin I Methods	16	0.051	0.021	40.2	0.05	0.00 - 0.10
Beckman ACCESS / 2 / DxI	5	0.038	0.005	13.2	0.04	0.02 - 0.05
i-STAT - moderate	5	0.265	0.026	10.0	0.26	0.18 - 0.35
Quidel Triage	10	0.078	0.103	132.5	0.05	0.00 - 0.29
Siemens Dimension	5	0.087	0.006	6.6	0.09	0.06 - 0.12
Specimen CK-12						
All Method	34	2.146	2.631	122.6	0.70	0.00 - 7.41
All HS Troponin I Methods	6	9.662	6.109	63.2	8.55	0.00 - 21.88
All Non-HS Troponin I Methods	16	0.728	0.534	73.3	0.47	0.00 - 1.80
Beckman ACCESS / 2 / DxI	5	0.690	0.022	3.1	0.70	0.48 - 0.90
i-STAT - moderate	5	4.503	0.225	5.0	4.57	3.15 - 5.86
Quidel Triage	10	0.416	0.039	9.4	0.40	0.29 - 0.55
Siemens Dimension	5	1.817	0.057	3.1	1.80	1.27 - 2.37
Specimen CK-13						
All Method	34	14.766	16.661	112.8	6.34	0.00 - 48.09
All HS Troponin I Methods	6	44.460	10.516	23.7	44.53	23.42 - 65.50
All Non-HS Troponin I Methods	16	4.269	1.829	42.8	3.69	0.61 - 7.93
Beckman ACCESS / 2 / DxI	5	3.610	0.104	2.9	3.65	2.52 - 4.70
i-STAT - moderate	5	19.063	2.338	12.3	19.84	13.34 - 24.79
Quidel Triage	10	3.520	1.144	32.5	3.75	1.23 - 5.81
Siemens Dimension	5	7.643	0.317	4.2	7.60	5.35 - 9.94
Specimen CK-14						
All Method	34	30.626	31.674	103.4	12.66	0.00 - 93.98
All HS Troponin I Methods	6	86.918	17.489	20.1	85.35	51.94 - 121.90
All Non-HS Troponin I Methods	16	9.894	2.006	20.3	9.26	5.88 - 13.91
Beckman ACCESS / 2 / DxI	5	8.995	0.444	4.9	9.02	6.29 - 11.70
i-STAT - moderate	5	38.323	5.299	13.8	38.76	26.82 - 49.82
Quidel Triage	10	9.219	1.482	16.1	8.59	6.25 - 12.19
Siemens Dimension	5	13.340	0.543	4.1	13.57	9.33 - 17.35
Specimen CK-15						
All Method	34	6.823	8.618	126.3	2.53	0.00 - 24.06
All HS Troponin I Methods	6	22.088	6.764	30.6	21.98	8.56 - 35.62
All Non-HS Troponin I Methods	16	1.638	0.964	58.9	1.29	0.00 - 3.57
Beckman ACCESS / 2 / DxI	5	1.418	0.103	7.3	1.41	0.99 - 1.85
i-STAT - moderate	5	8.343	0.710	8.5	8.58	5.83 - 10.85
Quidel Triage	10	1.133	0.199	17.6	1.10	0.73 - 1.54
Siemens Dimension	5	3.613	0.140	3.9	3.60	2.52 - 4.70

Troponin T (ng/mL)

Method	Specimen CK-11 Labs	Mean	SD	CV	Median	Range	Specimen CK-12 Labs	Mean	SD	CV	Median	Range
All Method	5	0.1425	0.0686	48.1	0.143	0.005 - 0.280	5	0.3100	0.1188	38.3	0.310	0.072 - 0.548
Roche cobas e 601/ e 602	5	0.1425	0.0686	48.1	0.143	0.005 - 0.280	5	0.3100	0.1188	38.3	0.310	0.072 - 0.548

Method	Specimen CK-13 Labs	Mean	SD	CV	Median	Range	Specimen CK-14 Labs	Mean	SD	CV	Median	Range
All Method	5	0.8530	0.2277	26.7	0.853	0.397 - 1.309	5	1.4965	0.4193	28.0	1.497	0.657 - 2.336
Roche cobas e 601/ e 602	5	0.8530	0.2277	26.7	0.853	0.397 - 1.309	5	1.4965	0.4193	28.0	1.497	0.657 - 2.336

Method	Specimen CK-15 Labs	Mean	SD	CV	Median	Range
All Method	5	0.4680	0.1556	33.2	0.468	0.156 - 0.780
Roche cobas e 601/ e 602	5	0.4680	0.1556	33.2	0.468	0.156 - 0.780

PSA (ng/mL)

Method	Specimen PS-5 Labs	Mean	SD	CV	Median	Range	Specimen PS-6 Labs	Mean	SD	CV	Median	Range
All Method	77	31.982	7.588	23.7	33.95	22.38 - 41.58	77	10.969	2.369	21.6	11.86	7.67 - 14.26
All Beckman Instruments	20	36.069	1.967	5.5	35.89	25.24 - 46.89	20	12.459	0.393	3.2	12.52	8.72 - 16.20
All Roche Instruments	6	36.077	1.929	5.3	36.06	25.25 - 46.90	6	12.362	0.819	6.6	12.55	8.65 - 16.08
All TOSOH Instruments	15	23.029	1.829	7.9	22.70	16.12 - 29.94	15	7.871	0.610	7.8	7.77	5.50 - 10.24
All VITROS Instruments	5	17.400	0.656	3.8	17.30	12.18 - 22.62	5	6.007	0.274	4.6	5.89	4.20 - 7.81
Abbott Architect	6	28.080	3.303	11.8	27.65	19.65 - 36.51	6	9.650	0.600	6.2	9.50	6.75 - 12.55
Beckman ACCESS / 2 / DxI	12	36.080	2.112	5.9	36.19	25.25 - 46.91	12	12.442	0.425	3.4	12.48	8.70 - 16.18
Beckman ACCESS Hybritech PSA	8	36.051	1.868	5.2	35.48	25.23 - 46.87	8	12.484	0.365	2.9	12.60	8.73 - 16.23
Qualigen FastPack	5	46.920	4.520	9.6	50.00	32.84 - 61.00	5	13.780	1.644	11.9	13.70	9.64 - 17.92
Roche cobas e 411	5	35.733	2.197	6.1	35.63	25.01 - 46.46	5	12.160	1.040	8.6	12.18	8.51 - 15.81
Roche cobas e 601/ e 602	5	36.420	2.031	5.6	36.48	25.49 - 47.35	5	12.563	0.689	5.5	12.91	8.79 - 16.34
Siemens Dimension TPSA	12	35.751	2.378	6.7	34.83	25.02 - 46.48	12	11.967	0.814	6.8	11.90	8.37 - 15.56
TOSOH AIA PACK	5	22.210	0.883	4.0	22.26	15.54 - 28.88	5	7.684	0.296	3.9	7.60	5.37 - 9.99
TOSOH ST AIA-PACK	10	23.438	2.074	8.8	23.14	16.40 - 30.47	10	7.965	0.715	9.0	7.89	5.57 - 10.36

Beta-2 microglobulin

	Specimen TM-5						Specimen TM-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	1.640	0.216	13.2	1.66	0.99 - 2.29	7	1.040	0.097	9.3	1.03	0.74 - 1.34

CA 125 (U/mL)

	Specimen TM-5						Specimen TM-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	67.9	6.8	9.9	79	54 - 82	12	38.7	3.5	9.0	45	30 - 47
All TOSOH Instruments	10	86.9	2.8	3.3	88	69 - 105	10	48.8	2.7	5.6	49	39 - 59
TOSOH ST AIA PACK	10	86.9	2.8	3.3	88	69 - 105	10	48.8	2.7	5.6	49	39 - 59

CA 15-3 (U/mL)

	Specimen TM-5						Specimen TM-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	8	79.3	24.9	31.4	75	29 - 130	8	50.1	16.1	32.2	49	17 - 83

CA 19-9 (ng/mL)

	Specimen TM-5						Specimen TM-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	9	98.2	27.2	27.7	105	43 - 153	9	52.4	13.8	26.2	58	24 - 80

CA 27/29 (U/mL)

	Specimen TM-5						Specimen TM-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	155.5	14.0	9.0	153	108 - 203	12	92.3	5.9	6.4	92	64 - 120
All TOSOH Instruments	10	155.5	14.0	9.0	153	108 - 203	10	92.3	5.9	6.4	92	64 - 120
TOSOH ST AIA PACK	10	155.5	14.0	9.0	153	108 - 203	10	92.3	5.9	6.4	92	64 - 120

CEA (U/mL)

	Specimen TM-5						Specimen TM-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	31.08	2.83	9.1	37.7	24.8 - 37.3	12	16.58	1.22	7.3	20.3	13.2 - 19.9
All TOSOH Instruments	10	39.16	1.08	2.8	39.4	31.3 - 47.0	10	21.23	0.79	3.7	21.1	16.9 - 25.5
TOSOH ST AIA PACK	10	39.16	1.08	2.8	39.4	31.3 - 47.0	10	21.23	0.79	3.7	21.1	16.9 - 25.5

Free PSA (ng/mL)

	Specimen TM-5						Specimen TM-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	4.743	0.677	14.3	5.16	3.31 - 6.17	7	2.353	0.374	15.9	2.55	1.45 - 3.26

PSA (ng/mL)

	Specimen TM-5						Specimen TM-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	26	4.754	1.135	23.9	4.55	3.32 - 6.19	26	2.351	0.510	21.7	2.36	1.45 - 3.26
All Beckman Instruments	11	5.600	0.773	13.8	5.90	3.92 - 7.28	11	2.725	0.273	10.0	2.80	1.82 - 3.63
All TOSOH Instruments	8	3.611	0.264	7.3	3.63	2.52 - 4.70	8	1.818	0.166	9.1	1.84	0.91 - 2.72
Beckman ACCESS / 2 / DxI	7	5.379	0.870	16.2	5.73	3.76 - 7.00	7	2.604	0.256	9.8	2.67	1.70 - 3.51
TOSOH ST AIA-PACK	8	3.611	0.264	7.3	3.63	2.52 - 4.70	8	1.818	0.166	9.1	1.84	0.91 - 2.72

Thyroglobulin (ng/mL)

	Specimen TM-5						Specimen TM-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	7	36.68	3.09	8.4	37.0	30.4 - 42.9	7	20.25	1.42	7.0	20.5	17.4 - 23.1
Beckman ACCESS / 2 / DxI	5	36.68	3.09	8.4	37.0	30.4 - 42.9	5	20.25	1.42	7.0	20.5	17.4 - 23.1

CEA (ng/mL)

	Specimen SC-5						Specimen SC-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	14	28.12	6.60	23.5	39.3	22.4 - 33.8	14	11.40	5.58	49.0	19.7	9.1 - 13.7
All TOSOH Instruments	6	54.53	0.97	1.8	54.6	43.6 - 65.5	6	19.85	0.13	0.7	19.9	15.8 - 23.9
Beckman ACCESS / 2 / DxI	5	24.50	2.23	9.1	24.1	19.6 - 29.4	5	8.60	0.62	7.3	8.4	6.8 - 10.4

DHEA-S (µg/dL)

	Specimen SC-5						Specimen SC-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	12	388.08	17.50	4.5	386.2	271.6 - 504.5	13	183.13	27.37	14.9	178.2	128.1 - 238.1
Beckman ACCESS / 2 / DxI	10	389.16	14.02	3.6	386.2	272.4 - 506.0	10	175.19	13.24	7.6	176.9	122.6 - 227.8

Estradiol (pg/mL)

	Specimen SC-5						Specimen SC-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	25	461.8	133.4	28.9	413	194 - 729	25	210.6	53.3	25.3	199	103 - 318
All TOSOH Instruments	5	704.4	45.9	6.5	714	493 - 916	5	304.0	28.1	9.2	293	212 - 396
Beckman ACCESS / 2 / DxI	13	397.0	28.0	7.0	402	277 - 517	13	198.6	12.7	6.4	199	139 - 259

Ferritin (ng/mL)

	Specimen SC-5						Specimen SC-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	27	211.3	27.9	13.2	157	169 - 254	27	86.3	12.2	14.2	62	69 - 104
All Abbott Instruments	8	225.6	10.0	4.5	226	180 - 271	8	93.4	4.1	4.4	94	74 - 113
All Roche Instruments	7	224.0	10.8	4.8	223	179 - 269	7	88.7	4.9	5.5	87	70 - 107
All TOSOH Instruments	19	151.7	4.3	2.8	152	121 - 183	19	58.9	2.2	3.8	59	47 - 71
Abbott Architect	6	226.8	11.5	5.1	229	181 - 273	6	93.2	4.2	4.5	94	74 - 112
Beckman ACCESS / 2 / DxI	22	151.6	7.7	5.1	151	121 - 182	22	59.4	3.4	5.7	60	47 - 72
Siemens Dimension	7	217.9	6.7	3.1	217	174 - 262	7	91.3	4.2	4.6	90	73 - 110
TOSOH ST AIA-PACK	15	151.5	4.3	2.9	151	121 - 182	15	58.9	2.3	3.8	59	47 - 71

Folate (ng/mL)

	Specimen SC-5						Specimen SC-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	23	7.60	3.01	39.7	8.2	5.3 - 9.9	22	2.35	0.72	30.8	2.4	1.3 - 3.4
All Roche Instruments	8	6.30	0.39	6.2	6.3	4.4 - 8.2	8	1.89	0.36	19.1	2.0	0.8 - 2.9
All Siemens Dimension Instruments	5	5.32	0.33	6.1	5.2	3.7 - 7.0	5	2.00	0.17	8.7	1.9	1.0 - 3.0
All TOSOH Instruments	8	4.26	0.34	7.9	4.2	2.9 - 5.6	8	1.29	0.29	22.1	1.3	0.2 - 2.3
Abbott Architect	7	11.46	1.58	13.8	11.7	8.0 - 14.9	7	3.17	0.65	20.4	3.1	2.1 - 4.2
Beckman ACCESS / 2 / DxI	17	9.56	0.78	8.1	9.6	6.6 - 12.5	17	2.99	0.25	8.4	3.0	1.9 - 4.0
Roche cobas e 601/ e 602	5	6.26	0.36	5.8	6.3	4.3 - 8.2	5	2.02	0.04	2.2	2.0	1.0 - 3.1

FSH (mIU/mL)

	Specimen SC-5						Specimen SC-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	25	47.11	4.72	10.0	46.4	38.6 - 55.6	26	21.76	2.39	11.0	21.7	17.8 - 25.7
All TOSOH Instruments	7	48.94	4.11	8.4	46.5	40.1 - 57.8	7	22.61	1.53	6.8	22.2	18.5 - 26.7
Beckman ACCESS / 2 / DxI	14	47.07	3.66	7.8	46.2	38.5 - 55.6	14	21.59	2.00	9.2	21.5	17.7 - 25.5

Homocysteine (μmol/L)

	Specimen SC-5						Specimen SC-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	48.0	2.0	4.2	48	33 - 63	5	20.7	1.2	5.6	20	14 - 27

LH (mIU/mL)

	Specimen SC-5						Specimen SC-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	22	48.70	5.44	11.2	47.8	37.8 - 59.6	22	18.61	2.21	11.9	18.1	14.1 - 23.1
Beckman ACCESS / 2 / DxI	14	45.44	3.12	6.9	45.9	36.3 - 54.6	14	17.29	0.93	5.4	17.1	13.8 - 20.8

Prealbumin (mg/dL)

	Specimen SC-5						Specimen SC-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	12	Not graded	2	-	-	-	14	Not graded

Progesterone (ng/mL)

	Specimen SC-5						Specimen SC-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	24	36.68	4.89	13.3	36.3	27.5 - 45.9	24	15.81	3.53	22.3	14.8	11.8 - 19.8
All Siemens ADVIA Instruments	5	28.03	1.88	6.7	27.0	21.0 - 35.1	5	12.17	1.10	9.0	11.8	9.1 - 15.3
Beckman ACCESS / 2 / DxI	10	37.12	2.08	5.6	36.3	27.8 - 46.4	10	14.66	0.91	6.2	14.7	10.9 - 18.4
TOSOH ST AIA PACK PROG III	5	43.13	2.73	6.3	44.4	32.3 - 54.0	5	21.37	0.99	4.6	20.9	16.0 - 26.8

Prolactin (ng/mL)

	Specimen SC-5						Specimen SC-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	23	50.53	7.74	15.3	47.9	40.4 - 60.7	23	18.26	1.77	9.7	18.1	14.6 - 22.0
All TOSOH Instruments	5	61.53	6.61	10.7	65.2	49.2 - 73.9	5	19.23	0.87	4.5	19.0	15.3 - 23.1
Beckman ACCESS / 2 / DxI	13	46.12	3.61	7.8	47.5	36.8 - 55.4	13	17.58	1.11	6.3	17.7	14.0 - 21.1

Testosterone (ng/dL)

	Specimen SC-5						Specimen SC-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	48	1180.5	208.8	17.7	1110	826 - 1535	48	493.1	87.1	17.7	469	345 - 642
All Roche Instruments	5	1292.2	69.6	5.4	1273	904 - 1680	5	538.2	26.9	5.0	529	376 - 700
All TOSOH Instruments	11	1444.0	79.0	5.5	1438	1010 - 1878	11	602.9	31.7	5.3	600	422 - 784
Abbott Architect	6	1154.8	159.1	13.8	1104	808 - 1502	6	432.0	66.4	15.4	402	302 - 562
Beckman ACCESS / 2 / DxI	22	1038.9	72.8	7.0	1043	727 - 1351	22	432.5	33.5	7.8	433	302 - 563
Roche cobas e 601/ e 602	5	1292.2	69.6	5.4	1273	904 - 1680	5	538.2	26.9	5.0	529	376 - 700
TOSOH ST AIA-PACK	7	1434.3	92.8	6.5	1438	1004 - 1865	7	598.0	36.8	6.2	600	418 - 778

Transferrin (mg/dL)

	Specimen SC-5						Specimen SC-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	10	172.5	8.1	4.7	174	155 - 190	10	125.4	5.5	4.4	126	112 - 138

Vitamin B_{12} (pg/mL)

	Specimen SC-5						Specimen SC-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	68	1049.9	182.2	17.4	1122	787 - 1313	68	426.9	78.3	18.3	407	320 - 534
All Abbott Instruments	8	1223.9	87.3	7.1	1219	917 - 1530	8	453.0	39.7	8.8	462	339 - 567
All Roche Instruments	8	1222.0	32.5	2.7	1228	916 - 1528	8	462.4	54.9	11.9	483	346 - 578
All Siemens Dimension Instruments	7	1153.0	26.2	2.3	1144	864 - 1442	7	478.6	16.1	3.4	483	358 - 599
All TOSOH Instruments	12	1219.5	84.1	6.9	1207	914 - 1525	12	540.7	38.0	7.0	531	405 - 676
Abbott Architect	7	1211.1	85.9	7.1	1202	908 - 1514	7	445.4	36.1	8.1	451	334 - 557
Beckman ACCESS / 2 / DxI	30	859.1	50.5	5.9	861	644 - 1074	31	358.4	24.8	6.9	360	268 - 449
Roche cobas e 601/ e 602	5	1240.8	16.0	1.3	1243	930 - 1551	5	500.0	21.4	4.3	491	375 - 625
Siemens Dimension	6	1155.7	27.7	2.4	1145	866 - 1445	6	480.5	16.8	3.5	485	360 - 601
TOSOH AIA PACK	7	1237.3	102.6	8.3	1231	927 - 1547	7	551.9	46.1	8.3	553	413 - 690
TOSOH ST AIA-PACK	5	1194.6	48.2	4.0	1192	895 - 1494	5	525.0	16.4	3.1	525	393 - 657

Serum Alcohol (mg/dL)

	Specimen ETH-11						Specimen ETH-12					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	202	Not graded	3	-	-	-	127	Not graded
	Specimen ETH-13						**Specimen ETH-14**					
All Method	3	-	-	-	110	Not graded	3	-	-	-	338	Not graded
	Specimen ETH-15											
All Method	3	-	-	-	180	Not graded						

Acetone

	Specimen ETH-11					Specimen ETH-12				
Method	***Labs***	***Negative***	***Small***	***Moderate***	***Large***	***Labs***	***Negative***	***Small***	***Moderate***	***Large***
ALL METHODS	10	-	-	1	9	10	10	-	-	-
Biorex Labs K-CHECK	10	-	-	1	9	10	10	-	-	-

	Specimen ETH-13					Specimen ETH-14				
ALL METHODS	10	10	-	-	-	10	10	-	-	-
Biorex Labs K-CHECK	10	10	-	-	-	10	10	-	-	-

	Specimen ETH-15				
ALL METHODS	10	-	-	-	10
Biorex Labs K-CHECK	10	-	-	-	10

Thyroglobulin Antibody (IU/mL)

	Specimen THY-5						Specimen THY-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	19	437.409	121.789	27.8	451.75	72.04 - 802.78	19	3.003	6.036	201.0	0.10	0.00 - 21.12
All Abbott Methods	5	370.956	30.982	8.4	382.23	278.00 - 463.91	5	0.812	1.295	159.5	0.06	0.00 - 4.70
Abbott Architect	5	376.483	32.806	8.7	384.87	278.06 - 474.91	5	1.015	1.400	138.0	0.53	0.00 - 5.22
Beckman ACCESS / 2 / DxI	9	538.731	32.973	6.1	546.90	439.81 - 637.66	9	0.333	0.453	135.8	0.10	0.00 - 1.70

Thryoid Peroxidase Antibody (TPO) (IU/mL)

	Specimen THY-5						Specimen THY-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	23	99.340	86.450	87.0	66.80	0.00 - 358.70	23	4.627	9.642	208.4	0.00	0.00 - 33.56
All Abbott Methods	5	82.720	6.797	8.2	83.00	62.32 - 103.12	5	0.800	1.304	163.0	0.00	0.00 - 4.72
Abbott Architect	5	84.780	5.771	6.8	84.70	67.46 - 102.10	5	1.000	1.414	141.4	0.50	0.00 - 5.25
Beckman ACCESS / 2 / DxI	11	61.080	5.423	8.9	59.70	44.80 - 77.36	11	0.073	0.125	172.2	0.00	0.00 - 0.45

Ammonia (µmol/L)

	Specimen AMM-5						Specimen AMM-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	4	-	-	-	285.8	Not graded	4	-	-	-	58.9	Not graded

Ethyl Glucuronide (EtG) (ng/mL)

	Specimen ETG-5			Specimen ETG-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	2	2	-	2	-	2
Cut-off 500						
Beckman AU	1	1	-	1	-	1
ImmTox	1	1	-	1	-	1
All Cut-off 500	2	2	-	2	-	2

Adulterated Urine – Specific Gravity

	Specimen AUR-5						Specimen AUR-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
ALL METHODS	2	-	-	-	1.045	Not graded	2	-	-	-	1.005	Not graded

Adulterated Urine – Specific Gravity Interpretation

	Specimen AUR-5			Specimen AUR-6		
Method	***Labs***	***Normal***	***Abnormal***	***Labs***	***Normal***	***Abnormal***
ALL METHODS	1	-	1	1	1	-
Carolina Chemistries BiOlis	1	-	1	1	1	-

Adulterated Urine – pH

	Specimen AUR-5						Specimen AUR-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
ALL METHODS	5	5.85	0.07	1.2	5.9	4.8 - 6.9	5	5.85	0.07	1.2	5.9	4.8 - 6.9

Adulterated Urine – pH Interpretation

	Specimen AUR-5			Specimen AUR-6		
Method	***Labs***	***Normal***	***Abnormal***	***Labs***	***Normal***	***Abnormal***
ALL METHODS	4	4	-	4	4	-
Axiom Diagnostics	1	1	-	1	1	-
Carolina Chemistries BiOlis	2	2	-	2	2	-
Siemens Viva-E	1	1	-	1	1	-

Adulterated Urine – Creatinine (mg/dL)

	Specimen AUR-5						Specimen AUR-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	2.0	Not graded	2	-	-	-	4.9	Not graded

Adulterated Urine – Creatinine Interpretation

	Specimen AUR-5			Specimen AUR-6		
Method	***Labs***	***Normal***	***Abnormal***	***Labs***	***Normal***	***Abnormal***
ALL METHODS	4	-	4	4	-	4
Beckman AU	1	-	1	1	-	1
Carolina Chemistries BiOlis	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2

Adulterated Urine – Nitrite Interpretation

	Specimen AUR-5			Specimen AUR-6		
Method	***Labs***	***Normal***	***Abnormal***	***Labs***	***Normal***	***Abnormal***
ALL METHODS	2	2	-	2	-	2

Adulterated Urine – Oxidants Interpretation

	Specimen AUR-5			Specimen AUR-6		
Method	***Labs***	***Negative/ Normal***	***Positive/ Abnormal***	***Labs***	***Negative/ Normal***	***Positive/ Abnormal***
ALL METHODS	2	2	-	2	-	2
Beckman AU	1	1	-	1	-	1
Siemens Viva-E	1	1	-	1	-	1

Urine Drug Screen

Acetaminophen (µg/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

Amphetamines (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	94	3	91	94	3	91
Cut-off 100						
McKesson Drug Panel	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 300						
Beckman AU	1	-	1	1	-	1
Siemens Viva-E	1	-	1	1	-	1
All Cut-off 300	2	-	2	2	-	2
Cut-off 500						
CLIAwaived, Inc. Drug Test	7	-	7	7	-	7
First Sign Drugs of Abuse	1	1	-	1	1	-
ImmTox	1	-	1	1	-	1
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics DRI	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
USDiagnostics UScreen Cup	2	-	2	2	-	2
Wondfo T-Cup Multi-Drug Urine Test	1	-	1	1	-	1
All Cut-off 500	18	1	17	18	1	17
Cut-off 1000						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	2	-	2	2	-	2
Alere iScreen	24	-	24	24	-	24
Alfa Scientific Instant-View	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1

Amphetamines (ng/mL) cont'd

	Specimen UDS-5			Specimen UDS-6		
	Labs	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
First Sign Drugs of Abuse	2	-	2	2	-	2
Germaine Labs AimScreen	3	-	3	3	-	3
Immunalysis	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
McKesson Consult Drug Panel	2	-	2	2	-	2
McKesson Drug Panel	7	-	7	7	-	7
Microgenics DRI	2	-	2	2	-	2
Noble Medical Inc.	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	10	2	8	10	2	8
All Cut-off 1000	71	2	69	71	2	69

Amphetamines/Methamphetamines (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	9	-	9	9	-	9
Cut-off 100						
McKesson Drug Panel	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 300						
Roche Integra	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 500						
Abbott Alinity	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Mindray BS-200/BS-480	1	-	1	1	-	1
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 500	4	-	4	4	-	4
Cut-off 1000						
Beckman AU	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 1000	2	-	2	2	-	2

Barbiturates (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	79	78	1	79	1	78
Cut-off 100						
Beckman AU	1	1	-	1	-	1
McKesson Drug Panel	1	1	-	1	-	1
All Cut-off 100	2	2	-	2	-	2
Cut-off 200						
Abbott Alinity	1	1	-	1	-	1
Beckman AU	3	3	-	3	-	3
BluRapids Multi-Drug Urine Test Cup	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	1	1	-	1	-	1
MEDTOX Diagnostics	3	3	-	3	-	3
Microgenics DRI	2	2	-	2	-	2
Roche Integra	1	1	-	1	-	1
Siemens Dimension	1	1	-	1	-	1
Siemens EMIT II Plus	1	1	-	1	-	1
All Cut-off 200	14	14	-	14	-	14
Cut-off 300						
Alere iCassette	3	3	-	3	-	3
Alere iCup	2	2	-	2	-	2
Alere iScreen	24	24	-	24	-	24
CLIAwaived, Inc. Drug Test	8	8	-	8	-	8
Germaine Labs AimScreen	1	1	-	1	-	1
Immunalysis	1	1	-	1	-	1
McKesson Consult Drug Panel	2	2	-	2	-	2
McKesson Drug Panel	7	7	-	7	-	7
Premier Biotech Bio-Cup/Bio-Dip	1	1	-	1	-	1
USDiagnostics One Step Multi-Drug	2	2	-	2	-	2
USDiagnostics UScreen Cup	9	8	1	9	1	8
Wondfo T-Cup Multi-Drug Urine Test	1	1	-	1	-	1
All Cut-off 300	62	61	1	62	1	61

Benzodiazepines (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	98	3	95	98	3	95
Cut-off 100						
Beckman AU	1	-	1	1	-	1
McKesson Drug Panel	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
All Cut-off 100	3	-	3	3	-	3
Cut-off 150						
MEDTOX Diagnostics	3	-	3	3	-	3
All Cut-off 150	3	-	3	3	-	3
Cut-off 200						
Abbott Alinity	1	-	1	1	-	1
Beckman AU	3	-	3	3	-	3
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
ImmTox	1	-	1	1	-	1
Microgenics DRI	5	-	5	5	-	5
Mindray BS-200/BS-480	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
All Cut-off 200	15	-	15	15	-	15
Cut-off 300						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	2	-	2	2	-	2
Alere iScreen	24	-	24	24	-	24
Alfa Scientific Instant-View	3	-	3	3	-	3
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	8	-	8	8	-	8
First Sign Drugs of Abuse	3	1	2	3	1	2
Germaine Labs AimScreen	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
McKesson Consult Drug Panel	2	-	2	2	-	2
McKesson Drug Panel	7	-	7	7	-	7
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 UScreen Cup	12	2	10	12	2	10
Wondfo T-Cup Multi-Drug Urine Test	1	-	1	1	-	1
All Cut-off 300	75	3	72	75	3	72

Buprenorphine (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	35	-	35	35	31	4
Cut-off 5						
Beckman AU	2	-	2	2	2	-
Microgenics CEDIA	2	-	2	2	2	-
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 5	6	-	6	6	5	1
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	8	-	8	8	7	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	4	-	4	4	4	-
MEDTOX Diagnostics	3	-	3	3	3	-
Microgenics CEDIA	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	4	-	4	4	4	-
Wondfo T-Cup Multi-Drug Urine Test	1	-	1	1	1	-
All Cut-off 10	27	-	27	27	25	2
Cut-off 20						
Microgenics CEDIA	1	-	1	1	1	-
All Cut-off 20	1	-	1	1	1	-

Cannabinoids (THC) (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	97	96	1	97	-	97
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 Alinity	1	1	-	1	-	1
Alere iCassette	3	3	-	3	-	3
Alere iCup	2	2	-	2	-	2
Alere iScreen	24	24	-	24	-	24
Alfa Scientific Instant-View	9	9	-	9	-	9
Beckman AU	3	3	-	3	-	3
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
Germaine Labs AimScreen	5	5	-	5	-	5
ImmTox	2	2	-	2	-	2
Immunalysis	1	1	-	1	-	1
Lin-Zhi International	1	1	-	1	-	1
McKesson Consult Drug Panel	1	1	-	1	-	1
McKesson Drug Panel	7	7	-	7	-	7
MEDTOX Diagnostics	3	3	-	3	-	3
Microgenics DRI	3	3	-	3	-	3
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
Roche cobas 6000 / c 501	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	9	8	1	9	-	9
Wondfo T-Cup Multi-Drug Urine Test	1	1	-	1	-	1
All Cut-off 50	93	92	1	93	-	93
Cut-off 100						
Beckman AU	1	1	-	1	-	1
All Cut-off 100	1	1		1		1

Carisoprodol (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	1	-

Cocaine Metabolites (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	111	3	108	111	3	108
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						
Abbott Alinity	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	7	-	7	7	-	7
First Sign Drugs of Abuse	1	1	-	1	1	-
ImmTox	2	-	2	2	-	2
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics DRI	1	-	1	1	-	1
Mindray BS-200/BS-480	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
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics UScreen Cup	2	-	2	2	-	2
Wondfo T-Cup Multi-Drug Urine Test	1	-	1	1	-	1
All Cut-off 150	25	1	24	25	1	24
Cut-off 300						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	2	-	2	2	-	2
Alere iScreen	24	-	24	24	-	24
Alfa Scientific Instant-View	9	-	9	9	-	9
Beckman AU	2	-	2	2	-	2

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

	Specimen UDS-5			Specimen UDS-6		
	Labs	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Germaine Labs AimScreen	5	-	5	5	-	5
Immunalysis	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
McKesson Consult Drug Panel	2	-	2	2	-	2
McKesson Drug Panel	7	-	7	7	-	7
Microgenics DRI	3	-	3	3	-	3
Noble Medical Inc.	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	10	2	8	10	2	8
All Cut-off 300	81	2	79	81	2	79

Cotinine (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

EDDP (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	5	2	3	5	-	5
Cut-off 100						
ImmTox	1	1	-	1	-	1
All Cut-off 100	1	1	-	1	-	1
Cut-off 300						
Beckman AU	1	1	-	1	-	1
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
All Cut-off 300	3	1	2	3	-	3

Ethanol (Alcohol) (mg/dL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	8	-	8	8	-	8
Cut-off 10						
Abbott Alinity	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
All Cut-off 10	3	-	3	3	-	3
Cut-off 20						
Beckman AU	1	-	1	1	-	1
All Cut-off 20	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-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	7	-	7	7	-	7
Cut-off 1						
Abbott Alinity	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 1	3	-	3	3	-	3
Cut-off 2						
Beckman AU	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Microgenics DRI	2	-	2	2	-	2
All Cut-off 2	4	-	4	4	-	4

Hydrocodone (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

LSD (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

MDMA (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	62	1	61	62	1	61
Cut-off 100						
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
McKesson Drug Panel	1	-	1	1	-	1
All Cut-off 100	2	-	2	2	-	2
Cut-off 300						
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 500						
Alere iCup	2	-	2	2	-	2
Alere iScreen	24	-	24	24	-	24
Beckman AU	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	7	-	7	7	-	7
Germaine Labs AimScreen	1	-	1	1	-	1
McKesson Consult Drug Panel	2	-	2	2	-	2
McKesson Drug Panel	7	-	7	7	-	7
Microgenics DRI	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	1	7	8	1	7
Wondfo T-Cup Multi-Drug Urine Test	1	-	1	1	-	1
All Cut-off 500	58	1	57	58	1	57

Meperidine (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	1	-	1	-	1

Methadone (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	84	2	82	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
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 150	2	-	2	2	-	2
Cut-off 200						
MEDTOX Diagnostics	3	-	3	3	-	3
All Cut-off 200	3	-	3	3	-	3
Cut-off 300						
12 Panel Now	1	-	1	1	-	1
Abbott Alinity	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	2	-	2	2	-	2
Alere iScreen	24	-	24	24	-	24
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	7	-	7	7	-	7
Germaine Labs AimScreen	1	-	1	1	-	1
Immunalysis	1	1	-	1	-	1
Lin-Zhi International	1	-	1	1	-	1
McKesson Consult Drug Panel	2	-	2	2	-	2
McKesson Drug Panel	7	-	7	7	-	7
Microgenics DRI	3	-	3	3	-	3
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

Methadone (ng/mL) cont'd

	Specimen UDS-5			Specimen UDS-6		
	Labs	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
Roche Integra	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	9	1	8	9	1	8
Wondfo T-Cup Multi-Drug Urine Test	1	-	1	1	-	1
All Cut-off 300	76	2	74	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-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	82	3	79	82	3	79
Cut-off 500						
Alere iScreen	24	-	24	24	-	24
CLIAwaived, Inc. Drug Test	7	-	7	7	-	7
First Sign Drugs of Abuse	1	1	-	1	1	-
ImmTox	2	-	2	2	-	2
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	3	-	3	3	-	3
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
USDiagnostics UScreen Cup	3	-	3	3	-	3
Wondfo T-Cup Multi-Drug Urine Test	1	-	1	1	-	1
All Cut-off 500	43	1	42	43	1	42
Cut-off 1000						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	2	-	2	2	-	2
Alfa Scientific Instant-View	3	-	3	3	-	3
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
First Sign Drugs of Abuse	2	-	2	2	-	2
Germaine Labs AimScreen	1	-	1	1	-	1
McKesson Consult Drug Panel	3	-	3	3	-	3
McKesson Drug Panel	6	-	6	6	-	6
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	10	2	8	10	2	8
All Cut-off 1000	37	2	35	37	2	35

Methanol (mg/dL)

	Specimen UDS-5			Specimen UDS-6		
	Labs	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

Methaqualone (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

6-MAM (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	4	-	4	4	4	-
Cut-off 10						
Beckman AU	1	-	1	1	1	-
ImmTox	1	-	1	1	1	-
Immunalysis	1	-	1	1	1	-
Microgenics CEDIA	1	-	1	1	1	-
All Cut-off 10	4	-	4	4	4	-

Opiates (Morphine Trihydrate) (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	109	3	106	109	4	105
Cut-off 100						
Beckman AU	1	-	1	1	-	1
MEDTOX Diagnostics	1	-	1	1	-	1
All Cut-off 100	2	-	2	2	-	2
Cut-off 300						
12 Panel Now	1	-	1	1	-	1
Abbott Alinity	1	-	1	1	-	1
Alere iCup	1	-	1	1	-	1
Alere iScreen	24	-	24	24	-	24
Alfa Scientific Instant-View	2	-	2	2	-	2
Beckman AU	3	-	3	3	-	3
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	5	-	5	5	-	5
Germaine Labs AimScreen	1	-	1	1	-	1
ImmTox	2	-	2	2	-	2
Lin-Zhi International	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	5	-	5	5	-	5
Microgenics DRI	4	-	4	4	-	4
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	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	11	1	10	11	1	10
Wondfo T-Cup Multi-Drug Urine Test	1	-	1	1	-	1
All Cut-off 300	74	1	73	74	2	72

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

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
Cut-off 2000						
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alfa Scientific Instant-View	7	-	7	7	-	7
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
First Sign Drugs of Abuse	3	1	2	3	1	2
Germaine Labs AimScreen	4	-	4	4	-	4
Immunalysis	1	-	1	1	-	1
McKesson Drug Panel	2	-	2	2	-	2
MEDTOX Diagnostics	2	-	2	2	-	2
Noble Medical Inc.	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	3	1	2	3	1	2
All Cut-off 2000	32	2	30	32	2	30

Oxycodone (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	81	1	80	81	1	80
Cut-off 100						
12 Panel Now	1	-	1	1	-	1
Alere iCassette	2	-	2	2	-	2
Alere iCup	2	-	2	2	-	2
Alere iScreen	25	-	25	25	-	25
Beckman AU	3	-	3	3	-	3
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	8	-	8	8	-	8
ImmTox	1	-	1	1	-	1
McKesson Consult Drug Panel	2	-	2	2	-	2
McKesson Drug Panel	7	-	7	7	-	7
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics DRI	4	-	4	4	-	4
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	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	9	1	8	9	1	8
Wondfo T-Cup Multi-Drug Urine Test	1	-	1	1	-	1
All Cut-off 100	76	1	75	76	1	75
Cut-off 300						
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	3	-	3	3	-	3

Phencyclidine (PCP) (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	77	1	76	77	1	76
Cut-off 25						
Abbott Alinity	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	1	-	1	1	-	1
Alere iScreen	24	-	24	24	-	24
Alfa Scientific Instant-View	1	-	1	1	-	1
Beckman AU	3	-	3	3	-	3
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	7	-	7	7	-	7
Germaine Labs AimScreen	3	-	3	3	-	3
McKesson Consult Drug Panel	2	-	2	2	-	2
McKesson Drug Panel	7	-	7	7	-	7
MEDTOX Diagnostics	3	-	3	3	-	3
Microgenics DRI	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	9	1	8	9	1	8
Wondfo T-Cup Multi-Drug Urine Test	1	-	1	1	-	1
All Cut-off 25	74	1	73	74	1	73
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

Propoxyphene (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	15	14	1	15	-	15
Cut-off 300						
Abbott Alinity	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
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	5	5	-	5	-	5
MEDTOX Diagnostics	3	3	-	3	-	3
All Cut-off 300	15	14	1	15	-	15

Tramadol (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
	Labs	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

Tricyclic Antidepressants (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
Method	***Labs***	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	25	1	24	25	23	2
Cut-off 300						
MEDTOX Diagnostics	3	-	3	3	3	-
All Cut-off 300	3	-	3	3	3	-
Cut-off 1000						
Alere iCup	1	-	1	1	1	-
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	1	-
CLIAwaived, Inc. Drug Test	5	-	5	5	4	1
McKesson Consult Drug Panel	2	-	2	2	2	-
McKesson Drug Panel	7	-	7	7	7	-
USDiagnostics UScreen Cup	4	1	3	4	3	1
All Cut-off 1000	20	1	19	20	18	2

Zolpidem (mg/dL)

	Specimen UDS-5			Specimen UDS-6		
	Labs	***Positive***	***Negative***	***Labs***	***Positive***	***Negative***
All Methods	1	-	1	1	-	1

Urine Amylase (U/L)

	Specimen UCH-5						Specimen UCH-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	119.8	Not graded	3	-	-	-	294.4	Not graded

Urine Calcium (mg/dL)

	Specimen UCH-5						Specimen UCH-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	4	-	-	-	8.9	Not graded	4	-	-	-	4.2	Not graded

Urine Chloride (mmol/L)

	Specimen UCH-5						Specimen UCH-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	4	-	-	-	98	Not graded	4	-	-	-	259	Not graded

Urine Creatinine (mg/dL)

	Specimen UCH-5						Specimen UCH-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	5	75.33	7.00	9.3	73.4	62.5 - 88.2	5	196.57	24.87	12.7	190.2	163.1 - 230.0

Urine Glucose (mg/dL)

	Specimen UCH-5						Specimen UCH-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	27	Not graded	3	-	-	-	289	Not graded

Urine Magnesium (mg/dL)

	Specimen UCH-5						Specimen UCH-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	3.0	Not graded	2	-	-	-	8.5	Not graded

Urine Osmolality (mOsm/kg)

	Specimen UCH-5						Specimen UCH-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	391	Not graded	1	-	-	-	920	Not graded

Urine Phosphorus (mg/dL)

	Specimen UCH-5						Specimen UCH-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	18.56	Not graded	2	-	-	-	60.65	Not graded

Urine Potassium (mmol/L)

	Specimen UCH-5						Specimen UCH-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	21	Not graded	3	-	-	-	92	Not graded

Urine Sodium (mmol/L)

	Specimen UCH-5						Specimen UCH-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	3	-	-	-	80	Not graded	3	-	-	-	175	Not graded

Urine Total Protein (mg/dL)

	Specimen UCH-5						Specimen UCH-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	4	-	-	-	9.66	Not graded	4	-	-	-	89.74	Not graded

Urine Urea Nitrogen (mg/dL)

	Specimen UCH-5						Specimen UCH-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	2	-	-	-	387.9	Not graded	2	-	-	-	668.8	Not graded

Urine Uric Acid (mg/dL)

	Specimen UCH-5						Specimen UCH-6					
Method	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***	***Labs***	***Mean***	***SD***	***CV***	***Median***	***Range***
All Method	1	-	-	-	4.91	Not graded	1	-	-	-	8.87	Not graded

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