

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Chemistry
2020 MLE-M3



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

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EVALUATION CRITERIA

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

Acetaminophen	$\pm 20\%$	Lactate (Lactic Acid)	± 0.4 mmol/L or 3 SD *
Acetone	80% Consensus	LDL Cholesterol	± 2 SD or 30% *
Albumin	$\pm 10\%$	Lipase	$\pm 30\%$
Alcohol	$\pm 25\%$	LH	± 2 SD or 20% *
Alpha-fetoprotein	± 3 SD	Lithium	± 0.3 mmol/L or 20% *
Alkaline Phosphatase	$\pm 30\%$	Magnesium	$\pm 25\%$
ALT (SGPT)	$\pm 20\%$	Myoglobin	± 2 SD or 30% *
Ammonia	± 2 SD or 5% *	NT-proBNP	± 2 SD or 25% *
Amylase	$\pm 30\%$	Parathyroid Hormone, Intact	± 2 SD
Apolipoprotein A1	$\pm 30\%$	Phenobarbital	$\pm 20\%$
Apolipoprotein B	$\pm 30\%$	Phenytoin	$\pm 25\%$
AST (SGOT)	$\pm 20\%$	Phosphorus	± 0.3 mg/dL or 10.7% *
B-Type Natriuretic Peptide (BNP)	± 2 SD or 25% *	Potassium	± 0.5 mmol/L
Beta-2 Microglobulin	± 3 SD	Prealbumin	$\pm 25\%$
Bilirubin, Direct	± 2 SD	Progesterone	$\pm 30\%$
Bilirubin, Total	± 0.4 mg/dL or 20% *	Prolactin	± 3.6 ng/mL or 30% *
Bilirubin, Neonatal (Total)	± 0.4 mg/dL or 20% *	Protein, Total (Serum)	$\pm 10\%$
C-Peptide	± 2 SD	Protein, Total (Urine)	$\pm 44\%$
CA 125	± 2 SD or 30% *	PSA	± 0.9 ng/mL or 30% *
CA 15-3	± 2 SD or 30% *	PSA, Free	± 0.9 ng/mL or 30% *
CA 19-9	± 2 SD or 30% *	pCO ₂	± 5 mmHg or 8% *
CA 27/29	± 2 SD or 30% *	pH	± 0.04
Calcium	± 1.0 mg/dL	pO ₂	± 3 SD
Calcium, Ionized	± 3 SD	Salicylate	$\pm 20\%$
Carbamazepine	$\pm 25\%$	SHBG	± 3 SD
CEA	± 1.2 ng/mL 30%	Sodium	± 4.0 mmol/L
Chloride	$\pm 5\%$	T ₃ Uptake (% Uptake)	± 3 SD
Cholesterol	$\pm 10\%$	T ₃ , Free	± 3 SD
CK-MB (Quantitative)	± 3 SD	T ₄ , Free	± 3 SD
CO ₂	$\pm 20\%$	tCO ₂	$\pm 20\%$
Cortisol	$\pm 25\%$	Testosterone	$\pm 30\%$
Creatine Kinase	$\pm 30\%$	Testosterone, Bioavailable	± 3 SD
Creatinine (Serum)	± 0.3 mg/dL or 15% *	Testosterone, Free	± 3 SD
Creatinine (Urine)	$\pm 17\%$	Theophylline	$\pm 25\%$
D-Dimer	± 2 SD or 30% *	Thyroglobulin	± 2 SD
DHEA-S	$\pm 30\%$	Thyroglobulin Antibody	± 3 SD
Digoxin	± 0.2 mg/dL or 20% *	Thyroid Peroxidase Antibody (TPO)	± 3 SD
Estradiol	± 2 SD	Thyroxine, Total T ₄	± 1.0 μ g/dL or 20% *
Ferritin	$\pm 30\%$	TIBC	± 2 SD or 20% *
Folate	± 1.0 ng/mL or 30% *	Transferrin	$\pm 10\%$
FSH	$\pm 25\%$	Triglyceride	$\pm 25\%$
Gentamicin	$\pm 25\%$	Triiodothyronine, Total T ₃	± 3 SD
GGT	± 2 SD or 20% *	Troponin I	± 2 SD or 30% *
Glucose, Serum	± 6 mg/dL or 10% *	Troponin T	± 2 SD or 30% *
Glucose, Whole Blood	± 12 mg/dL or 20% *	TSH	± 3 SD
Glycohemoglobin	$\pm 5\%$	UIBC	± 2 SD or 20% *
HDL Cholesterol	$\pm 30\%$	Urea Nitrogen	± 2.0 mg/dL or 9% *
HCG, Serum—Qualitative	80% Consensus	Uric Acid	$\pm 17\%$
HCG, Serum—Quantitative	± 3 SD	Urine Drug Screen	80% Consensus
Hematocrit	$\pm 6\%$	Valproic Acid	$\pm 25\%$
Hemoglobin	$\pm 7\%$	Vancomycin	$\pm 25\%$
Homocysteine	$\pm 30\%$	Vitamin B ₁₂	$\pm 30\%$
Insulin	± 2 SD	Vitamin D	± 2 SD
Iron	$\pm 20\%$		
Lactate Dehydrogenase	$\pm 20\%$		

*Whichever is greater

Sodium (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST- 12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	104	169.2	0.5	0.3	169	165 - 174	106	145.7	0.6	0.4	146	141 - 150
All i-STAT Instruments	104	169.2	0.5	0.3	169	165 - 174	106	145.7	0.6	0.4	146	141 - 150
i-STAT - moderate	86	169.1	0.5	0.3	169	165 - 174	87	145.6	0.6	0.4	146	141 - 150
i-STAT - waived	18	169.3	0.6	0.3	169	165 - 174	19	145.8	0.6	0.4	146	141 - 150
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	102	125.5	0.5	0.4	126	121 - 130	99	147.9	0.6	0.4	148	143 - 152
All i-STAT Instruments	102	125.5	0.5	0.4	126	121 - 130	99	147.9	0.6	0.4	148	143 - 152
i-STAT - moderate	88	125.5	0.5	0.4	126	121 - 130	86	147.9	0.6	0.4	148	143 - 152
i-STAT - waived	14	125.6	0.6	0.5	126	121 - 130	14	147.6	0.9	0.6	148	143 - 152
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	101	169.1	0.7	0.4	169	165 - 174						
All i-STAT Instruments	101	169.1	0.7	0.4	169	165 - 174						
i-STAT - moderate	86	169.2	0.7	0.4	169	165 - 174						
i-STAT - waived	14	169.0	0.9	0.5	169	165 - 173						

Potassium (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	106	6.50	0.04	0.6	6.5	5.9 - 7.0	107	6.11	0.04	0.7	6.1	5.6 - 6.7
All i-STAT Instruments	106	6.50	0.04	0.6	6.5	5.9 - 7.0	107	6.11	0.04	0.7	6.1	5.6 - 6.7
i-STAT - moderate	87	6.50	0.04	0.7	6.5	5.9 - 7.0	88	6.12	0.04	0.7	6.1	5.6 - 6.7
i-STAT - waived	19	6.50	0.01	0.0	6.5	6.0 - 7.0	17	6.10	0.01	0.0	6.1	5.6 - 6.6
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	100	2.79	0.03	1.1	2.8	2.2 - 3.3	101	4.23	0.05	1.1	4.2	3.7 - 4.8
All i-STAT Instruments	100	2.79	0.03	1.1	2.8	2.2 - 3.3	101	4.23	0.05	1.1	4.2	3.7 - 4.8
i-STAT - moderate	87	2.79	0.03	1.2	2.8	2.2 - 3.3	88	4.23	0.05	1.1	4.2	3.7 - 4.8
i-STAT - waived	14	2.80	0.04	1.4	2.8	2.3 - 3.3	13	4.24	0.05	1.2	4.2	3.7 - 4.8
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	99	6.50	0.03	0.5	6.5	6.0 - 7.1						
All i-STAT Instruments	99	6.50	0.03	0.5	6.5	6.0 - 7.1						
i-STAT - moderate	78	6.50	0.01	0.0	6.5	6.0 - 7.0						
i-STAT - waived	12	6.50	0.01	0.0	6.5	6.0 - 7.0						

Chloride (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	106	115.5	0.7	0.6	115	109 - 122	107	102.9	0.7	0.7	103	97 - 109
All i-STAT Instruments	106	115.5	0.7	0.6	115	109 - 122	107	102.9	0.7	0.7	103	97 - 109
i-STAT - moderate	88	115.5	0.7	0.6	115	109 - 122	89	102.8	0.7	0.7	103	97 - 108
i-STAT - waived	18	115.6	0.9	0.7	116	109 - 122	18	103.0	0.7	0.7	103	97 - 109

<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	100	75.5	0.7	1.0	75	71 - 80	99	84.8	0.6	0.7	85	80 - 90
All i-STAT Instruments	100	75.5	0.7	1.0	75	71 - 80	99	84.8	0.6	0.7	85	80 - 90
i-STAT - moderate	87	75.5	0.7	0.9	75	71 - 80	86	84.8	0.5	0.6	85	80 - 90
i-STAT - waived	13	75.5	0.8	1.0	76	71 - 80	13	84.8	0.7	0.8	85	80 - 90

<u>Instrument</u>	Specimen IST-15					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	99	115.2	0.7	0.6	115	109 - 121
All i-STAT Instruments	99	115.2	0.7	0.6	115	109 - 121
i-STAT - moderate	86	115.2	0.7	0.6	115	109 - 121
i-STAT - waived	13	114.9	0.8	0.7	115	109 - 121

tCO₂ (mmol/L)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	103	22.6	0.9	4.1	23	18 - 28	103	16.4	0.6	4.0	16	13 - 20
All i-STAT Instruments	103	22.6	0.9	4.1	23	18 - 28	103	16.4	0.6	4.0	16	13 - 20
i-STAT - moderate	86	22.6	0.9	4.2	23	18 - 28	86	16.4	0.7	4.1	16	13 - 20
i-STAT - waived	17	22.8	0.9	4.0	23	18 - 28	17	16.3	0.5	2.9	16	13 - 20

<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	95	22.7	0.7	3.0	23	18 - 28	97	20.0	0.8	3.9	20	16 - 25
All i-STAT Instruments	95	22.7	0.7	3.0	23	18 - 28	97	20.0	0.8	3.9	20	16 - 25
i-STAT - moderate	83	22.7	0.7	3.1	23	18 - 28	85	20.1	0.7	3.7	20	16 - 25
i-STAT - waived	12	22.5	0.5	2.3	23	18 - 27	12	19.8	1.1	5.3	20	15 - 24

<u>Instrument</u>	Specimen IST-15					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	99	22.4	0.9	3.9	22	17 - 27
All i-STAT Instruments	99	22.4	0.9	3.9	22	17 - 27
i-STAT - moderate	87	22.4	0.9	3.8	22	17 - 27
i-STAT - waived	12	22.3	1.1	4.8	22	17 - 27

Urea Nitrogen (BUN) (mg/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	107	16.2	0.4	2.5	16	14 - 19	106	21.2	0.4	2.0	21	19 - 24
All i-STAT Instruments	107	16.2	0.4	2.5	16	14 - 19	106	21.2	0.4	2.0	21	19 - 24
i-STAT - moderate	88	16.2	0.4	2.6	16	14 - 19	87	21.3	0.4	2.1	21	19 - 24
i-STAT - waived	19	16.2	0.4	2.3	16	14 - 19	18	21.0	0.1	0.0	21	19 - 23
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	99	67.0	1.0	1.6	67	60 - 74	100	36.6	0.6	1.7	37	33 - 40
All i-STAT Instruments	99	67.0	1.0	1.6	67	60 - 74	100	36.6	0.6	1.7	37	33 - 40
i-STAT - moderate	84	67.0	0.9	1.3	67	60 - 74	87	36.6	0.6	1.8	37	33 - 40
i-STAT - waived	14	66.4	2.3	3.4	67	60 - 73	13	36.6	0.7	1.8	37	33 - 40
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	100	16.2	0.4	2.6	16	14 - 19						
All i-STAT Instruments	100	16.2	0.4	2.6	16	14 - 19						
i-STAT - moderate	86	16.2	0.4	2.7	16	14 - 19						
i-STAT - waived	14	16.1	0.4	2.2	16	14 - 19						

Glucose (mg/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	107	74.1	1.1	1.5	74	66 - 82	106	84.2	1.0	1.2	84	75 - 93
All i-STAT Instruments	107	74.1	1.1	1.5	74	66 - 82	106	84.2	1.0	1.2	84	75 - 93
i-STAT - moderate	88	74.2	1.1	1.4	74	66 - 82	88	84.1	1.0	1.2	84	75 - 93
i-STAT - waived	19	73.9	1.3	1.8	74	66 - 82	19	84.2	1.3	1.5	84	75 - 93
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	101	175.2	1.3	0.8	175	157 - 193	101	128.6	1.5	1.2	128	115 - 142
All i-STAT Instruments	101	175.2	1.3	0.8	175	157 - 193	101	128.6	1.5	1.2	128	115 - 142
i-STAT - moderate	87	175.3	1.3	0.7	175	157 - 193	86	128.4	1.4	1.1	128	115 - 142
i-STAT - waived	14	174.5	1.4	0.8	175	157 - 192	14	129.0	1.8	1.4	129	116 - 142
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	100	74.0	1.1	1.5	74	66 - 82						
All i-STAT Instruments	100	74.0	1.1	1.5	74	66 - 82						
i-STAT - moderate	86	73.9	1.1	1.5	74	66 - 82						
i-STAT - waived	14	74.5	1.0	1.4	75	67 - 82						

Hematocrit (percent)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	30.1	0.7	2.4	30	28 - 32	23	26.0	0.6	2.2	26	24 - 28
All i-STAT Instruments	23	30.1	0.7	2.4	30	28 - 32	23	26.0	0.6	2.2	26	24 - 28
i-STAT - moderate	12	30.3	1.0	3.2	30	28 - 33	12	26.3	0.6	2.4	26	24 - 28
i-STAT - waived	10	30.0	0.1	0.0	30	28 - 32	11	25.8	0.4	1.6	26	24 - 28
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	21.1	0.7	3.2	21	19 - 23	18	36.3	1.1	3.1	36	34 - 39
All i-STAT Instruments	18	21.1	0.7	3.2	21	19 - 23	18	36.3	1.1	3.1	36	34 - 39
i-STAT - moderate	12	21.3	0.8	3.5	21	19 - 23	12	36.7	1.1	2.9	36	34 - 39
i-STAT - waived	6	20.8	0.4	2.0	21	19 - 23	6	35.5	0.8	2.4	36	33 - 38
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	18	30.1	0.7	2.4	30	28 - 32						
All i-STAT Instruments	18	30.1	0.7	2.4	30	28 - 32						
i-STAT - moderate	12	30.2	0.8	2.8	30	28 - 32						
i-STAT - waived	6	29.8	0.4	1.4	30	28 - 32						

Hemoglobin (g/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	10.23	0.23	2.3	10.2	9.5 - 11.0	23	8.80	0.27	3.0	8.8	8.1 - 9.5
All i-STAT Instruments	23	10.23	0.23	2.3	10.2	9.5 - 11.0	23	8.80	0.27	3.0	8.8	8.1 - 9.5
i-STAT - moderate	12	10.28	0.31	3.0	10.2	9.5 - 11.1	12	8.91	0.23	2.6	8.8	8.2 - 9.6
i-STAT - waived	10	10.20	0.01	0.0	10.2	9.4 - 11.0	11	8.67	0.25	2.9	8.8	8.0 - 9.3
<u>Instrument</u>	Specimen IST-13						Specimen IST-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	7.16	0.24	3.4	7.1	6.6 - 7.7	18	12.31	0.38	3.1	12.2	11.4 - 13.2
All i-STAT Instruments	18	7.16	0.24	3.4	7.1	6.6 - 7.7	18	12.31	0.38	3.1	12.2	11.4 - 13.2
i-STAT - moderate	12	7.22	0.27	3.8	7.1	6.7 - 7.8	12	12.44	0.37	3.0	12.2	11.5 - 13.4
i-STAT - waived	6	7.05	0.12	1.7	7.1	6.5 - 7.6	6	12.05	0.25	2.1	12.2	11.2 - 12.9
<u>Instrument</u>	Specimen IST-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	18	10.22	0.22	2.1	10.2	9.5 - 11.0						
All i-STAT Instruments	18	10.22	0.22	2.1	10.2	9.5 - 11.0						
i-STAT - moderate	12	10.25	0.25	2.4	10.2	9.5 - 11.0						
i-STAT - waived	6	10.15	0.12	1.2	10.2	9.4 - 10.9						

Creatinine (mg/dL)

<u>Instrument</u>	Specimen IST-11						Specimen IST-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	112	0.72	0.04	6.3	0.7	0.4 - 1.1	113	1.08	0.05	4.2	1.1	0.7 - 1.4
All i-STAT Instruments	112	0.72	0.04	6.3	0.7	0.4 - 1.1	113	1.08	0.05	4.2	1.1	0.7 - 1.4
i-STAT - moderate	86	0.71	0.04	5.9	0.7	0.4 - 1.1	87	1.08	0.05	4.3	1.1	0.7 - 1.4
i-STAT - waived	26	0.74	0.05	6.7	0.7	0.4 - 1.1	26	1.07	0.05	4.2	1.1	0.7 - 1.4
Specimen IST-13						Specimen IST-14						
All Method	99	3.67	0.12	3.2	3.7	3.1 - 4.3	97	1.60	0.05	3.2	1.6	1.3 - 2.0
All i-STAT Instruments	99	3.67	0.12	3.2	3.7	3.1 - 4.3	97	1.60	0.05	3.2	1.6	1.3 - 2.0
i-STAT - moderate	87	3.67	0.13	3.5	3.7	3.1 - 4.3	85	1.60	0.05	3.3	1.6	1.3 - 2.0
i-STAT - waived	13	3.70	0.08	2.2	3.7	3.1 - 4.3	13	1.64	0.07	4.0	1.6	1.3 - 2.0
Specimen IST-15												
All Method	99	0.73	0.05	6.6	0.7	0.4 - 1.1						
All i-STAT Instruments	99	0.73	0.05	6.6	0.7	0.4 - 1.1						
i-STAT - moderate	86	0.73	0.05	6.5	0.7	0.4 - 1.1						
i-STAT - waived	13	0.75	0.05	7.0	0.7	0.4 - 1.1						

Ionized Calcium (mmol/L)

<u><i>Instrument</i></u>	Specimen IST-11						Specimen IST-12					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	99	0.869	0.008	1.0	0.87	0.84 - 0.90	102	0.777	0.008	1.1	0.78	0.75 - 0.81
All i-STAT Instruments	99	0.869	0.008	1.0	0.87	0.84 - 0.90	102	0.777	0.008	1.1	0.78	0.75 - 0.81
i-STAT - moderate	82	0.869	0.008	0.9	0.87	0.84 - 0.90	85	0.777	0.008	1.0	0.78	0.75 - 0.81
i-STAT - waived	17	0.870	0.011	1.2	0.87	0.83 - 0.91	17	0.778	0.009	1.1	0.78	0.75 - 0.81
<u><i>Instrument</i></u>	Specimen IST-13						Specimen IST-14					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	98	2.080	0.025	1.2	2.08	2.00 - 2.16	96	1.184	0.012	1.0	1.18	1.14 - 1.23
All i-STAT Instruments	98	2.080	0.025	1.2	2.08	2.00 - 2.16	96	1.184	0.012	1.0	1.18	1.14 - 1.23
i-STAT - moderate	85	2.079	0.024	1.1	2.08	2.00 - 2.15	83	1.186	0.010	0.8	1.18	1.15 - 1.22
i-STAT - waived	13	2.084	0.035	1.7	2.08	1.97 - 2.19	13	1.187	0.033	2.8	1.19	1.08 - 1.29
<u><i>Instrument</i></u>	Specimen IST-15											
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>						
All Method	93	0.871	0.007	0.8	0.87	0.84 - 0.90						
All i-STAT Instruments	93	0.871	0.007	0.8	0.87	0.84 - 0.90						
i-STAT - moderate	80	0.870	0.007	0.8	0.87	0.84 - 0.90						
i-STAT - waived	13	0.875	0.007	0.8	0.88	0.85 - 0.90						

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	181	1.74	0.18	10.5	1.8	1.5 - 2.0	181	2.93	0.32	10.8	3.0	2.6 - 3.3
All Bromocresol Green Reagents	135	1.83	0.10	5.4	1.8	1.6 - 2.1	134	3.10	0.13	4.0	3.1	2.7 - 3.5
All Bromocresol Purple Reagents	45	1.47	0.10	6.7	1.4	1.3 - 1.7	44	2.41	0.07	2.8	2.4	2.1 - 2.7
Abaxis Piccolo												
Abaxis Piccolo - waived	16	1.56	0.05	3.2	1.6	1.4 - 1.8	16	2.44	0.09	3.6	2.4	2.1 - 2.7
All Chemistry Instruments	18	1.57	0.05	3.1	1.6	1.4 - 1.8	18	2.43	0.09	3.7	2.4	2.1 - 2.7
Abbott Architect Albumin (BCG)												
Abbott Architect	5	1.74	0.05	3.1	1.7	1.5 - 2.0	5	3.02	0.08	2.8	3.0	2.7 - 3.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	1.86	0.06	3.2	1.9	1.6 - 2.1	23	3.11	0.08	2.6	3.1	2.7 - 3.5
Beckman AU												
Beckman AU systems	31	1.80	0.06	3.4	1.8	1.6 - 2.0	31	3.09	0.09	2.9	3.1	2.7 - 3.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	1.86	0.06	3.3	1.9	1.6 - 2.1	18	3.06	0.11	3.6	3.1	2.7 - 3.4
Roche cobas c 501												
Roche cobas 6000 / c 501	9	1.98	0.07	3.4	2.0	1.7 - 2.2	9	3.29	0.09	2.8	3.3	2.9 - 3.7
Roche Integra												
Roche Integra	14	1.86	0.05	2.8	1.9	1.6 - 2.1	14	3.19	0.08	2.4	3.2	2.8 - 3.6
Siemens Healthcare												
Siemens Dimension	25	1.40	0.04	2.5	1.4	1.2 - 1.6	25	2.40	0.05	1.9	2.4	2.1 - 2.7
All Chemistry Instruments	25	1.39	0.03	2.0	1.4	1.2 - 1.6	26	2.40	0.04	1.9	2.4	2.1 - 2.7
VITROS												
VITROS 250,350,400 500,700,750,950	19	1.69	0.05	2.7	1.7	1.5 - 1.9	19	2.97	0.08	2.8	3.0	2.6 - 3.3
All Chemistry Instruments	22	1.69	0.04	2.5	1.7	1.5 - 1.9	22	2.96	0.08	2.7	3.0	2.6 - 3.3

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	169	3.63	0.36	10.0	3.7	3.2 - 4.0	169	2.05	0.21	10.3	2.1	1.8 - 2.3
All Bromocresol Green Reagents	135	3.79	0.15	4.0	3.8	3.4 - 4.2	134	2.14	0.10	4.8	2.1	1.9 - 2.4
All Bromocresol Purple Reagents	32	2.94	0.06	2.1	2.9	2.6 - 3.3	32	1.67	0.08	4.7	1.7	1.5 - 1.9
Abaxis Piccolo												
Abaxis Piccolo - waived	5	2.92	0.11	3.8	2.9	2.6 - 3.3	5	1.78	0.08	4.7	1.8	1.6 - 2.0
All Chemistry Instruments	6	2.93	0.10	3.5	2.9	2.6 - 3.3	6	1.78	0.08	4.2	1.8	1.6 - 2.0
Abbott Architect Albumin (BCG)												
Abbott Architect	5	3.72	0.08	2.2	3.7	3.3 - 4.1	5	2.04	0.05	2.7	2.0	1.8 - 2.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	3.77	0.11	2.8	3.8	3.3 - 4.2	23	2.16	0.06	2.7	2.2	1.9 - 2.4
Beckman AU												
Beckman AU systems	29	3.78	0.07	1.9	3.8	3.4 - 4.2	31	2.12	0.06	2.9	2.1	1.9 - 2.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	3.64	0.13	3.5	3.7	3.2 - 4.1	18	2.14	0.09	4.0	2.2	1.9 - 2.4
Roche cobas c 501												
Roche cobas 6000 / c 501	9	4.07	0.10	2.5	4.1	3.6 - 4.5	9	2.33	0.07	3.0	2.3	2.0 - 2.6
Roche Integra												
Roche Integra	14	3.89	0.07	1.7	3.9	3.4 - 4.3	14	2.19	0.05	2.4	2.2	1.9 - 2.5
Siemens Healthcare												
Siemens Dimension	25	2.94	0.05	1.7	2.9	2.6 - 3.3	25	1.64	0.05	3.1	1.6	1.4 - 1.9
All Chemistry Instruments	26	2.94	0.05	1.7	2.9	2.6 - 3.3	26	1.64	0.05	3.1	1.6	1.4 - 1.9
VITROS												
VITROS 250,350,400 500,700,750,950	20	3.75	0.14	3.8	3.7	3.3 - 4.2	19	2.01	0.05	2.3	2.0	1.8 - 2.3
All Chemistry Instruments	23	3.75	0.14	3.7	3.7	3.3 - 4.2	22	2.01	0.04	2.1	2.0	1.8 - 2.3

Albumin (g/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	169	3.51	0.36	10.1	3.6	3.1 - 3.9
All Bromocresol Green Reagents	134	3.66	0.15	4.0	3.7	3.2 - 4.1
All Bromocresol Purple Reagents	32	2.84	0.07	2.3	2.8	2.5 - 3.2
Abaxis Piccolo						
Abaxis Piccolo - waived	5	2.84	0.09	3.1	2.9	2.5 - 3.2
All Chemistry Instruments	6	2.83	0.08	2.9	2.9	2.5 - 3.2
Abbott Architect Albumin (BCG)						
Abbott Architect	5	3.60	0.07	2.0	3.6	3.2 - 4.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	23	3.66	0.12	3.4	3.7	3.2 - 4.1
Beckman AU						
Beckman AU systems	31	3.67	0.11	3.1	3.7	3.3 - 4.1
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	3.53	0.13	3.6	3.6	3.1 - 3.9
Roche cobas c 501						
Roche cobas 6000 / c 501	9	3.92	0.14	3.6	3.9	3.5 - 4.4
Roche Integra						
Roche Integra	14	3.74	0.11	2.9	3.8	3.3 - 4.2
Siemens Healthcare						
Siemens Dimension	25	2.84	0.06	2.2	2.8	2.5 - 3.2
All Chemistry Instruments	26	2.84	0.06	2.2	2.8	2.5 - 3.2
VITROS						
VITROS 250,350,400 500,700,750,950	20	3.64	0.16	4.4	3.6	3.2 - 4.1
All Chemistry Instruments	23	3.64	0.15	4.1	3.6	3.2 - 4.1

Bilirubin, Direct (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	106	1.03	0.34	33.0	1.0	0.3 - 1.8
All Alfa Wassermann Reagents	11	1.55	0.22	14.2	1.5	1.1 - 2.0
All Roche Reagents	19	0.80	0.15	19.1	0.8	0.4 - 1.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	11	1.55	0.22	14.2	1.5	1.1 - 2.0
Beckman AU						
Beckman AU systems	22	1.12	0.17	14.8	1.2	0.7 - 1.5
Siemens Healthcare						
Siemens Dimension	18	0.75	0.06	8.2	0.8	0.6 - 0.9
All Chemistry Instruments	21	0.75	0.07	10.0	0.8	0.6 - 1.0
VITROS-BuBc and Bc						
VITROS 250,350,400 500,700,750,950	11	0.84	0.36	42.9	1.0	0.1 - 1.6
All Chemistry Instruments	12	0.87	0.36	41.3	1.0	0.1 - 1.6

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	177	0.53	0.10	18.1	0.5	0.1 - 1.0	180	2.88	0.31	10.6	2.8	2.3 - 3.5
All Alfa Wassermann Reagents	23	0.64	0.07	11.3	0.7	0.2 - 1.1	24	3.35	0.17	5.0	3.4	2.6 - 4.1
All Horiba Pentra Reagents	18	0.54	0.07	12.9	0.5	0.1 - 1.0	18	2.90	0.22	7.8	2.9	2.3 - 3.5
All Roche T. bili Special Reagents	20	0.43	0.08	18.6	0.5	0.0 - 0.9	20	2.57	0.11	4.4	2.6	2.0 - 3.1
Abaxis Piccolo												
Abaxis Piccolo - waived	16	0.60	0.08	13.6	0.6	0.2 - 1.0	16	2.70	0.19	6.9	2.8	2.1 - 3.3
All Chemistry Instruments	18	0.60	0.08	12.8	0.6	0.2 - 1.0	18	2.69	0.19	7.1	2.8	2.1 - 3.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	0.64	0.07	11.3	0.7	0.2 - 1.1	24	3.35	0.17	5.0	3.4	2.6 - 4.1
Beckman AU												
Beckman AU systems	30	0.56	0.06	10.2	0.6	0.1 - 1.0	29	2.82	0.14	4.9	2.8	2.2 - 3.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	0.54	0.07	12.9	0.5	0.1 - 1.0	18	2.90	0.22	7.8	2.9	2.3 - 3.5
Roche Integra-T. bili Gen.3												
All Chemistry Instruments	10	0.44	0.08	19.2	0.5	0.0 - 0.9	10	2.57	0.13	4.9	2.6	2.0 - 3.1
Siemens Healthcare												
Siemens Dimension	24	0.49	0.08	16.9	0.5	0.0 - 0.9	25	2.80	0.21	7.5	2.8	2.2 - 3.4
All Chemistry Instruments	25	0.49	0.08	16.5	0.5	0.0 - 0.9	26	2.80	0.20	7.3	2.8	2.2 - 3.4
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	20	0.54	0.09	16.3	0.5	0.1 - 1.0	20	3.05	0.27	8.8	3.1	2.4 - 3.7
All Chemistry Instruments	23	0.53	0.09	17.4	0.5	0.1 - 1.0	23	3.07	0.26	8.6	3.1	2.4 - 3.7

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	166	4.23	0.46	10.8	4.2	3.3 - 5.1	167	1.07	0.14	13.1	1.1	0.6 - 1.5
All Alfa Wassermann Reagents	24	4.90	0.23	4.8	4.9	3.9 - 5.9	24	1.26	0.11	8.7	1.3	0.8 - 1.7
All Horiba Pentra Reagents	18	4.19	0.31	7.3	4.2	3.3 - 5.1	17	1.04	0.13	12.3	1.1	0.6 - 1.5
All Roche T. bili Special Reagents	20	3.74	0.21	5.6	3.8	2.9 - 4.5	20	0.94	0.09	9.4	1.0	0.5 - 1.4
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	4.0	3.3 - 5.1	5	-	-	-	1.0	0.6 - 1.5
All Chemistry Instruments	6	-	-	-	4.0	3.1 - 4.7	6	-	-	-	1.0	0.6 - 1.5
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	4.90	0.23	4.8	4.9	3.9 - 5.9	24	1.26	0.11	8.7	1.3	0.8 - 1.7
Beckman AU												
Beckman AU systems	30	4.03	0.22	5.5	4.1	3.2 - 4.9	30	1.08	0.10	9.3	1.1	0.6 - 1.5
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	4.19	0.31	7.3	4.2	3.3 - 5.1	17	1.04	0.13	12.3	1.1	0.6 - 1.5
Roche Integra-T. bili Gen.3												
All Chemistry Instruments	10	3.73	0.26	7.0	3.8	2.9 - 4.5	10	0.94	0.08	9.0	1.0	0.5 - 1.4
Siemens Healthcare												
Siemens Dimension	25	4.16	0.28	6.8	4.2	3.3 - 5.0	24	1.04	0.08	7.9	1.0	0.6 - 1.5
All Chemistry Instruments	26	4.16	0.28	6.7	4.2	3.3 - 5.0	25	1.04	0.08	7.8	1.0	0.6 - 1.5
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	19	4.48	0.40	8.9	4.5	3.5 - 5.4	20	1.10	0.10	8.8	1.1	0.7 - 1.5
All Chemistry Instruments	22	4.55	0.42	9.2	4.6	3.6 - 5.5	23	1.10	0.10	8.7	1.1	0.7 - 1.5

Bilirubin, Total (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	3.99	0.43	10.9	3.9	3.1 - 4.8
All Alfa Wassermann Reagents	24	4.59	0.28	6.1	4.6	3.6 - 5.6
All Horiba Pentra Reagents	18	3.98	0.28	7.0	4.0	3.1 - 4.8
All Roche T. bili Special Reagents	20	3.55	0.20	5.7	3.6	2.8 - 4.3
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	3.8	3.1 - 4.8
All Chemistry Instruments	6	-	-	-	3.8	3.0 - 4.5
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	4.59	0.28	6.1	4.6	3.6 - 5.6
Beckman AU						
Beckman AU systems	30	3.80	0.23	6.1	3.8	3.0 - 4.6
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	3.98	0.28	7.0	4.0	3.1 - 4.8
Roche Integra-T. bili Gen.3						
All Chemistry Instruments	10	3.55	0.21	5.8	3.6	2.8 - 4.3
Siemens Healthcare						
Siemens Dimension	25	3.93	0.31	7.8	3.9	3.1 - 4.8
All Chemistry Instruments	26	3.92	0.30	7.7	3.9	3.1 - 4.8
VITROS - TBIL						
VITROS 250,350,400 500,700,750,950	20	4.27	0.35	8.3	4.4	3.4 - 5.2
All Chemistry Instruments	23	4.31	0.37	8.5	4.4	3.4 - 5.2

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	178	7.79	0.22	2.8	7.8	6.7 - 8.8	182	10.60	0.26	2.5	10.6	9.5 - 11.6
All Arsenazo Methods	83	7.84	0.29	3.7	7.8	6.8 - 8.9	83	10.62	0.27	2.6	10.6	9.6 - 11.7
All CPC Methods	97	7.76	0.19	2.4	7.7	6.7 - 8.8	98	10.58	0.25	2.4	10.6	9.5 - 11.6
Abaxis Piccolo												
Abaxis Piccolo - waived	16	8.13	0.20	2.5	8.1	7.1 - 9.2	16	10.81	0.28	2.6	10.8	9.8 - 11.9
All Chemistry Instruments	18	8.15	0.22	2.7	8.1	7.1 - 9.2	18	10.78	0.28	2.6	10.8	9.7 - 11.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	7.89	0.24	3.0	7.9	6.8 - 8.9	25	10.64	0.24	2.3	10.6	9.6 - 11.7
Beckman AU												
Beckman AU systems	32	7.66	0.16	2.1	7.7	6.6 - 8.7	32	10.51	0.22	2.1	10.5	9.5 - 11.6
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	7.75	0.14	1.8	7.7	6.7 - 8.8	15	10.75	0.29	2.7	10.7	9.7 - 11.8
Roche Integra												
Roche Integra	14	7.82	0.22	2.8	7.9	6.8 - 8.9	14	10.63	0.23	2.1	10.7	9.6 - 11.7
Siemens Healthcare												
Siemens Dimension	23	7.77	0.16	2.1	7.7	6.7 - 8.8	24	10.45	0.18	1.7	10.5	9.4 - 11.5
All Chemistry Instruments	26	7.77	0.16	2.1	7.7	6.7 - 8.8	27	10.46	0.19	1.9	10.5	9.4 - 11.5
VITROS												
VITROS 250,350,400 500,700,750,950	20	7.74	0.17	2.2	7.8	6.7 - 8.8	20	10.64	0.24	2.2	10.6	9.6 - 11.7
All Chemistry Instruments	23	7.75	0.17	2.2	7.8	6.7 - 8.8	23	10.64	0.23	2.2	10.6	9.6 - 11.7

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	171	12.11	0.29	2.4	12.1	11.1 - 13.2	169	8.47	0.24	2.8	8.5	7.4 - 9.5
All Arsenazo Methods	72	12.06	0.30	2.4	12.1	11.0 - 13.1	71	8.50	0.29	3.4	8.5	7.4 - 9.5
All CPC Methods	98	12.14	0.28	2.3	12.2	11.1 - 13.2	98	8.44	0.21	2.5	8.5	7.4 - 9.5
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	12.1	11.0 - 13.1	5	-	-	-	8.9	7.4 - 9.5
All Chemistry Instruments	6	-	-	-	12.1	11.1 - 13.2	6	-	-	-	9.0	7.8 - 9.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	12.02	0.28	2.3	12.0	11.0 - 13.1	25	8.61	0.22	2.6	8.6	7.6 - 9.7
Beckman AU												
Beckman AU systems	32	12.10	0.26	2.1	12.2	11.1 - 13.1	32	8.34	0.17	2.0	8.3	7.3 - 9.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	12.26	0.29	2.3	12.3	11.2 - 13.3	15	8.47	0.22	2.6	8.4	7.4 - 9.5
Roche Integra												
Roche Integra	14	12.21	0.25	2.1	12.3	11.2 - 13.3	14	8.52	0.19	2.3	8.6	7.5 - 9.6
Siemens Healthcare												
Siemens Dimension	24	12.05	0.30	2.5	12.0	11.0 - 13.1	24	8.43	0.22	2.6	8.5	7.4 - 9.5
All Chemistry Instruments	27	12.04	0.30	2.5	12.0	11.0 - 13.1	27	8.43	0.22	2.6	8.4	7.4 - 9.5
VITROS												
VITROS 250,350,400 500,700,750,950	20	12.16	0.27	2.2	12.1	11.1 - 13.2	20	8.49	0.20	2.3	8.5	7.4 - 9.5
All Chemistry Instruments	23	12.15	0.26	2.1	12.1	11.1 - 13.2	23	8.49	0.19	2.2	8.5	7.4 - 9.5

Calcium (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	167	11.84	0.26	2.2	11.8	10.8 - 12.9
All Arsenazo Methods	70	11.79	0.30	2.5	11.8	10.7 - 12.8
All CPC Methods	98	11.86	0.26	2.2	11.9	10.8 - 12.9
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	11.9	10.7 - 12.8
All Chemistry Instruments	6	-	-	-	11.9	10.8 - 12.8
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	11.78	0.28	2.4	11.8	10.7 - 12.8
Beckman AU						
Beckman AU systems	32	11.83	0.21	1.8	11.8	10.8 - 12.9
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	15	11.97	0.30	2.5	12.0	10.9 - 13.0
Roche Integra						
Roche Integra	14	11.91	0.24	2.0	11.9	10.9 - 13.0
Siemens Healthcare						
Siemens Dimension	24	11.79	0.30	2.5	11.7	10.7 - 12.8
All Chemistry Instruments	27	11.78	0.29	2.5	11.6	10.7 - 12.8
VITROS						
VITROS 250,350,400 500,700,750,950	20	11.91	0.29	2.4	11.9	10.9 - 13.0
All Chemistry Instruments	23	11.90	0.27	2.3	11.9	10.9 - 13.0

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	178	1.04	0.09	8.6	1.0	0.7 - 1.4	179	3.01	0.15	5.1	3.0	2.5 - 3.5
All Alfa Wassermann Reagents	25	1.13	0.07	6.1	1.1	0.8 - 1.5	26	2.94	0.15	5.2	2.9	2.4 - 3.4
All Roche Reagents	23	1.02	0.05	4.8	1.0	0.7 - 1.4	24	2.88	0.15	5.4	2.9	2.4 - 3.4
All VITROS Reagents	23	1.03	0.05	5.3	1.0	0.7 - 1.4	23	3.19	0.09	2.7	3.2	2.7 - 3.7
Abaxis Piccolo												
Abaxis Piccolo - waived	16	1.11	0.23	20.5	1.1	0.8 - 1.5	16	3.08	0.23	7.4	3.1	2.6 - 3.6
All Chemistry Instruments	18	1.10	0.22	20.0	1.1	0.8 - 1.4	18	3.06	0.22	7.3	3.1	2.6 - 3.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	1.13	0.07	6.1	1.1	0.8 - 1.5	26	2.94	0.15	5.2	2.9	2.4 - 3.4
Beckman AU												
Beckman AU systems	32	1.00	0.04	4.0	1.0	0.6 - 1.3	32	2.96	0.08	2.8	3.0	2.5 - 3.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	0.96	0.05	5.1	1.0	0.6 - 1.3	16	2.92	0.08	2.9	2.9	2.4 - 3.4
Roche Integra												
Roche Integra	14	1.00	0.01	0.0	1.0	0.7 - 1.3	14	2.87	0.08	2.9	2.9	2.4 - 3.4
Siemens Healthcare												
Siemens Dimension	24	1.11	0.05	4.8	1.1	0.8 - 1.5	24	3.06	0.10	3.2	3.1	2.6 - 3.6
All Chemistry Instruments	27	1.09	0.08	7.8	1.1	0.7 - 1.4	27	3.05	0.11	3.4	3.1	2.5 - 3.6
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	15	1.03	0.06	5.8	1.0	0.7 - 1.4	15	3.17	0.10	3.0	3.2	2.6 - 3.7
All Chemistry Instruments	17	1.02	0.06	5.5	1.0	0.7 - 1.4	17	3.17	0.09	2.9	3.2	2.6 - 3.7

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	170	4.06	0.26	6.4	4.0	3.4 - 4.7	166	1.52	0.09	5.7	1.5	1.2 - 1.9
All Alfa Wassermann Reagents	26	3.90	0.14	3.5	3.9	3.3 - 4.5	26	1.58	0.09	5.6	1.6	1.2 - 1.9
All Roche Reagents	24	3.81	0.22	5.8	3.8	3.2 - 4.4	23	1.50	0.07	4.7	1.5	1.1 - 1.8
All VITROS Reagents	23	4.47	0.12	2.6	4.5	3.7 - 5.2	23	1.54	0.06	3.8	1.5	1.2 - 1.9
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	4.1	3.4 - 4.7	5	-	-	-	1.5	1.2 - 1.9
All Chemistry Instruments	6	-	-	-	4.1	3.5 - 4.8	6	-	-	-	1.6	1.1 - 1.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	3.90	0.14	3.5	3.9	3.3 - 4.5	26	1.58	0.09	5.6	1.6	1.2 - 1.9
Beckman AU												
Beckman AU systems	32	4.00	0.12	3.1	4.0	3.4 - 4.7	32	1.48	0.06	4.0	1.5	1.1 - 1.8
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	3.89	0.19	4.8	3.9	3.3 - 4.5	17	1.42	0.08	5.7	1.4	1.1 - 1.8
Roche Integra												
Roche Integra	14	3.75	0.10	2.7	3.7	3.1 - 4.4	14	1.48	0.04	2.9	1.5	1.1 - 1.8
Siemens Healthcare												
Siemens Dimension	24	4.20	0.11	2.6	4.2	3.5 - 4.9	24	1.56	0.07	4.6	1.6	1.2 - 1.9
All Chemistry Instruments	26	4.21	0.11	2.5	4.2	3.5 - 4.9	27	1.54	0.08	5.5	1.5	1.2 - 1.9
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	15	4.44	0.11	2.5	4.5	3.7 - 5.2	15	1.54	0.06	4.1	1.5	1.2 - 1.9
All Chemistry Instruments	17	4.45	0.11	2.5	4.5	3.7 - 5.2	17	1.54	0.06	3.9	1.5	1.2 - 1.9

Creatinine (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	3.85	0.24	6.2	3.8	3.2 - 4.5
All Alfa Wassermann Reagents	25	3.71	0.20	5.3	3.7	3.1 - 4.3
All Roche Reagents	24	3.64	0.21	5.8	3.6	3.0 - 4.2
All VITROS Reagents	23	4.20	0.09	2.2	4.2	3.5 - 4.9
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	4.0	3.2 - 4.5
All Chemistry Instruments	6	-	-	-	4.0	3.4 - 4.7
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	25	3.71	0.20	5.3	3.7	3.1 - 4.3
Beckman AU						
Beckman AU systems	31	3.80	0.08	2.0	3.8	3.2 - 4.4
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	3.70	0.15	4.2	3.7	3.1 - 4.3
Roche Integra						
Roche Integra	14	3.60	0.13	3.6	3.6	3.0 - 4.2
Siemens Healthcare						
Siemens Dimension	24	3.98	0.10	2.6	4.0	3.3 - 4.6
All Chemistry Instruments	26	3.98	0.10	2.5	4.0	3.3 - 4.6
VITROS - CREA						
VITROS 250,350,400 500,700,750,950	15	4.18	0.10	2.4	4.2	3.5 - 4.9
All Chemistry Instruments	17	4.18	0.10	2.3	4.2	3.5 - 4.9

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	190	74.5	4.0	5.3	74	67 - 82	190	159.8	6.3	4.0	160	143 - 176
All Alfa Wassermann Reagents	27	79.8	2.2	2.8	80	71 - 88	26	168.0	4.3	2.6	169	151 - 185
All Horiba Pentra Reagents	17	73.5	4.6	6.2	72	66 - 81	17	158.9	7.7	4.8	158	142 - 175
All Roche Reagents	23	74.1	1.6	2.2	74	66 - 82	24	160.8	4.3	2.7	161	144 - 177
Abaxis Piccolo												
Abaxis Piccolo - waived	16	76.9	2.9	3.8	76	69 - 85	16	157.7	2.6	1.6	159	141 - 174
All Chemistry Instruments	18	76.8	2.8	3.7	76	69 - 85	18	157.6	2.5	1.6	158	141 - 174
Abbott Architect												
Abbott Architect	6	72.0	2.2	3.0	71	64 - 80	6	153.5	4.6	3.0	153	138 - 169
Alere Cholestech LDX												
Alere Cholestech LDX - waived	7	66.7	2.6	3.8	68	60 - 74	7	153.1	7.6	4.9	149	137 - 169
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	27	79.8	2.2	2.8	80	71 - 88	26	168.0	4.3	2.6	169	151 - 185
Beckman AU												
Beckman AU systems	32	74.7	2.9	3.9	74	67 - 83	32	160.5	5.0	3.1	161	144 - 177
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	73.5	4.6	6.2	72	66 - 81	17	158.9	7.7	4.8	158	142 - 175
Roche cobas c 501												
Roche cobas 6000 / c 501	9	73.1	2.7	3.6	74	65 - 81	9	159.8	5.4	3.4	160	143 - 176
Roche Integra												
Roche Integra	14	74.2	1.8	2.5	74	66 - 82	14	161.4	3.8	2.4	161	145 - 178
Siemens Healthcare												
Siemens Dimension	24	74.5	2.1	2.8	75	67 - 82	24	160.5	3.2	2.0	162	144 - 177
All Chemistry Instruments	27	74.3	2.1	2.8	74	66 - 82	26	160.5	3.1	1.9	161	144 - 177
VITROS												
VITROS 250,350,400 500,700,750,950	20	70.5	1.6	2.3	70	63 - 78	20	154.7	3.2	2.1	155	139 - 171
All Chemistry Instruments	23	70.2	1.7	2.4	70	63 - 78	23	154.3	3.2	2.1	154	138 - 170

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	172	208.8	7.5	3.6	209	187 - 230	172	95.5	4.3	4.5	95	85 - 106
All Alfa Wassermann Reagents	27	217.4	5.0	2.3	218	195 - 240	26	101.4	2.8	2.7	102	91 - 112
All Horiba Pentra Reagents	17	205.9	11.6	5.6	202	185 - 227	17	94.6	5.0	5.2	94	85 - 105
All Roche Reagents	23	209.1	4.4	2.1	209	188 - 231	23	95.4	2.1	2.2	95	85 - 105
Abaxis Piccolo												
Abaxis Piccolo - waived	5	202.8	1.1	0.5	203	182 - 224	5	95.2	1.8	1.9	95	85 - 105
All Chemistry Instruments	6	203.3	1.6	0.8	203	182 - 224	6	95.5	1.8	1.8	96	85 - 106
Abbott Architect												
Abbott Architect	6	201.3	4.7	2.3	200	181 - 222	6	92.2	2.5	2.7	92	82 - 102
Alere Cholestech LDX												
Alere Cholestech LDX - waived	1	-	-	-	190	187 - 230	1	-	-	-	83	85 - 106
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	27	217.4	5.0	2.3	218	195 - 240	26	101.4	2.8	2.7	102	91 - 112
Beckman AU												
Beckman AU systems	32	208.9	7.0	3.3	208	188 - 230	32	95.8	3.2	3.4	95	86 - 106
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	205.9	11.6	5.6	202	185 - 227	17	94.6	5.0	5.2	94	85 - 105
Roche cobas c 501												
Roche cobas 6000 / c 501	9	206.6	7.0	3.4	209	185 - 228	9	94.2	3.1	3.3	95	84 - 104
Roche Integra												
Roche Integra	14	209.5	5.1	2.5	210	188 - 231	14	95.6	2.4	2.5	96	86 - 106
Siemens Healthcare												
Siemens Dimension	24	208.8	4.4	2.1	210	187 - 230	24	95.3	2.1	2.2	95	85 - 105
All Chemistry Instruments	27	208.3	4.5	2.1	208	187 - 230	27	95.1	2.1	2.2	95	85 - 105
VITROS												
VITROS 250,350,400 500,700,750,950	20	206.5	4.1	2.0	206	185 - 228	20	91.4	2.2	2.4	92	82 - 101
All Chemistry Instruments	23	206.1	4.0	1.9	206	185 - 227	23	91.2	2.2	2.4	91	82 - 101

Glucose (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	171	199.0	7.3	3.7	198	179 - 219
All Alfa Wassermann Reagents	26	208.4	4.8	2.3	209	187 - 230
All Horiba Pentra Reagents	17	196.9	9.1	4.6	195	177 - 217
All Roche Reagents	23	199.6	4.0	2.0	200	179 - 220
Abaxis Piccolo						
Abaxis Piccolo - waived	5	194.0	2.0	1.0	194	174 - 214
All Chemistry Instruments	6	193.8	1.8	0.9	194	174 - 214
Abbott Architect						
Abbott Architect	6	192.8	4.2	2.2	191	173 - 213
Alere Cholestech LDX						
Alere Cholestech LDX - waived	1	-	-	-	182	179 - 219
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	26	208.4	4.8	2.3	209	187 - 230
Beckman AU						
Beckman AU systems	31	198.7	6.7	3.4	197	178 - 219
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	196.9	9.1	4.6	195	177 - 217
Roche cobas c 501						
Roche cobas 6000 / c 501	9	198.1	6.2	3.1	200	178 - 218
Roche Integra						
Roche Integra	14	199.5	4.8	2.4	200	179 - 220
Siemens Healthcare						
Siemens Dimension	24	199.2	3.9	2.0	199	179 - 220
All Chemistry Instruments	27	198.8	3.9	2.0	199	178 - 219
VITROS						
VITROS 250,350,400 500,700,750,950	20	196.0	4.0	2.0	196	176 - 216
All Chemistry Instruments	23	195.4	4.1	2.1	196	175 - 215

Iron (µg/dL)**Specimen CH-15**

All Method	73	187.5	13.5	7.2	186	150 - 226
All Alfa Wassermann Reagents	5	173.2	1.8	1.0	173	138 - 208
All Roche Reagents	11	186.9	2.8	1.5	187	149 - 225
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	5	173.2	1.8	1.0	173	138 - 208
Beckman AU						
Beckman AU systems	20	202.0	4.2	2.1	202	161 - 243
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	6	176.7	7.5	4.2	178	141 - 213
Roche cobas c 501						
Roche cobas 6000 / c 501	6	187.2	2.6	1.4	188	149 - 225
Roche Integra						
Roche Integra	5	186.6	3.2	1.7	187	149 - 224
Siemens Healthcare						
Siemens Dimension	14	177.4	3.0	1.7	177	141 - 213
All Chemistry Instruments	15	177.3	2.9	1.6	177	141 - 213
VITROS						
All Chemistry Instruments	6	205.7	10.6	5.1	206	164 - 247

Lactate (Lactic Acid) (mmol/L)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	1.00	0.08	8.2	1.0	0.7 - 1.3	4	3.85	0.10	2.6	3.8	3.5 - 4.2
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	5.50	0.24	4.5	5.5	4.7 - 6.3	4	1.68	0.13	7.5	1.7	1.2 - 2.1
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	4	5.25	0.17	3.3	5.3	4.7 - 5.8						

Magnesium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	94	1.67	0.13	7.5	1.7	1.2 - 2.1	95	3.09	0.19	6.2	3.1	2.3 - 3.9
All Horiba Pentra Reagents	15	1.66	0.21	12.6	1.6	1.2 - 2.1	15	2.92	0.13	4.5	2.9	2.1 - 3.7
All Roche Reagents	18	1.65	0.05	3.1	1.7	1.2 - 2.1	18	3.10	0.07	2.2	3.1	2.3 - 3.9
Beckman AU												
Beckman AU systems	18	1.69	0.06	3.8	1.7	1.2 - 2.2	18	3.08	0.14	4.6	3.1	2.3 - 3.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	1.66	0.22	13.0	1.7	1.2 - 2.1	14	2.92	0.14	4.7	2.9	2.1 - 3.7
All Chemistry Instruments	15	1.66	0.21	12.6	1.6	1.2 - 2.1	15	2.92	0.13	4.5	2.9	2.1 - 3.7
Roche Integra												
Roche Integra	11	1.61	0.11	7.1	1.6	1.2 - 2.1	11	3.02	0.21	7.1	3.1	2.2 - 3.8
Siemens Healthcare												
Siemens Dimension	14	1.70	0.10	6.1	1.7	1.2 - 2.2	14	3.21	0.11	3.3	3.2	2.4 - 4.1
All Chemistry Instruments	15	1.71	0.10	6.1	1.7	1.2 - 2.2	15	3.21	0.11	3.3	3.2	2.4 - 4.1
VITROS												
All Chemistry Instruments	10	1.81	0.10	5.5	1.8	1.3 - 2.3	10	3.41	0.13	3.8	3.4	2.5 - 4.3

Phosphorus (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	69	4.31	0.22	5.2	4.3	3.8 - 4.8
All Roche Reagents	14	4.17	0.09	2.2	4.2	3.7 - 4.7
Beckman AU						
Beckman AU systems	18	4.27	0.19	4.5	4.3	3.8 - 4.8
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	7	4.71	0.15	3.1	4.7	4.2 - 5.3
Roche cobas c 501						
Roche cobas 6000 / c 501	5	4.26	0.05	1.3	4.3	3.8 - 4.8
Roche Integra						
Roche Integra	9	4.12	0.07	1.6	4.1	3.6 - 4.6
Siemens Healthcare						
Siemens Dimension	10	4.42	0.12	2.8	4.4	3.9 - 4.9
All Chemistry Instruments	12	4.38	0.15	3.5	4.4	3.9 - 4.9
VITROS						
VITROS 250,350,400 500,700,750,950	6	4.32	0.12	2.7	4.3	3.8 - 4.8
All Chemistry Instruments	8	4.34	0.11	2.4	4.4	3.8 - 4.9

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	178	3.31	0.12	3.6	3.3	2.9 - 3.7	175	5.77	0.19	3.2	5.8	5.1 - 6.4
All Alfa Wassermann Reagents	24	3.31	0.12	3.5	3.3	2.9 - 3.7	24	5.91	0.23	3.9	5.9	5.3 - 6.6
All Horiba Pentra Reagents	17	3.28	0.11	3.3	3.3	2.9 - 3.7	17	5.72	0.17	2.9	5.7	5.1 - 6.3
All Roche Reagents	24	3.23	0.10	3.2	3.2	2.9 - 3.6	24	5.65	0.14	2.6	5.7	5.0 - 6.3
Abaxis Piccolo												
Abaxis Piccolo - waived	16	3.41	0.07	2.0	3.4	3.0 - 3.8	16	5.79	0.11	1.9	5.8	5.2 - 6.4
All Chemistry Instruments	18	3.40	0.07	2.0	3.4	3.0 - 3.8	18	5.77	0.11	2.0	5.8	5.1 - 6.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	3.31	0.12	3.5	3.3	2.9 - 3.7	24	5.91	0.23	3.9	5.9	5.3 - 6.6
Beckman AU												
Beckman AU systems	31	3.24	0.09	2.7	3.3	2.9 - 3.6	30	5.70	0.13	2.2	5.7	5.1 - 6.3
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	3.28	0.11	3.3	3.3	2.9 - 3.7	17	5.72	0.17	2.9	5.7	5.1 - 6.3
Roche Integra												
Roche Integra	14	3.16	0.07	2.4	3.2	2.8 - 3.5	14	5.56	0.12	2.1	5.6	5.0 - 6.2
Siemens Healthcare												
Siemens Dimension	24	3.41	0.07	2.1	3.4	3.0 - 3.8	24	6.00	0.08	1.4	6.0	5.4 - 6.6
All Chemistry Instruments	25	3.41	0.07	2.1	3.4	3.0 - 3.8	25	6.00	0.08	1.4	6.0	5.4 - 6.6
VITROS												
VITROS 250,350,400 500,700,750,950	20	3.33	0.09	2.6	3.3	2.9 - 3.7	20	5.65	0.15	2.7	5.6	5.0 - 6.3
All Chemistry Instruments	23	3.33	0.08	2.5	3.3	2.9 - 3.7	23	5.64	0.14	2.5	5.6	5.0 - 6.3

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	166	7.11	0.26	3.7	7.1	6.4 - 7.9	166	3.90	0.14	3.5	3.9	3.5 - 4.3
All Alfa Wassermann Reagents	24	7.30	0.20	2.7	7.3	6.5 - 8.1	24	3.96	0.13	3.4	3.9	3.5 - 4.4
All Horiba Pentra Reagents	17	7.09	0.24	3.4	7.1	6.3 - 7.8	17	3.88	0.14	3.6	3.9	3.4 - 4.3
All Roche Reagents	24	6.94	0.18	2.5	6.9	6.2 - 7.7	24	3.81	0.12	3.1	3.8	3.4 - 4.2
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	7.0	6.4 - 7.9	5	-	-	-	3.9	3.5 - 4.3
All Chemistry Instruments	6	-	-	-	7.1	6.3 - 7.9	6	-	-	-	3.9	3.5 - 4.4
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	7.30	0.20	2.7	7.3	6.5 - 8.1	24	3.96	0.13	3.4	3.9	3.5 - 4.4
Beckman AU												
Beckman AU systems	31	7.06	0.15	2.1	7.1	6.3 - 7.8	31	3.85	0.09	2.2	3.9	3.4 - 4.3
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	7.09	0.24	3.4	7.1	6.3 - 7.8	17	3.88	0.14	3.6	3.9	3.4 - 4.3
Roche Integra												
Roche Integra	14	6.82	0.10	1.4	6.8	6.1 - 7.6	14	3.73	0.08	2.2	3.7	3.3 - 4.2
Siemens Healthcare												
Siemens Dimension	24	7.42	0.12	1.6	7.4	6.6 - 8.2	24	4.05	0.07	1.6	4.0	3.6 - 4.5
All Chemistry Instruments	25	7.42	0.12	1.6	7.4	6.6 - 8.2	25	4.06	0.07	1.6	4.0	3.6 - 4.5
VITROS												
VITROS 250,350,400 500,700,750,950	20	6.87	0.17	2.4	6.9	6.1 - 7.6	20	3.93	0.11	2.8	3.9	3.5 - 4.4
All Chemistry Instruments	23	6.87	0.16	2.3	6.8	6.1 - 7.6	23	3.91	0.11	2.8	3.9	3.5 - 4.4

Protein, Total (g/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	165	6.86	0.24	3.5	6.9	6.1 - 7.6
All Alfa Wassermann Reagents	24	7.03	0.19	2.7	7.0	6.3 - 7.8
All Horiba Pentra Reagents	17	6.81	0.20	2.9	6.9	6.1 - 7.5
All Roche Reagents	24	6.71	0.19	2.8	6.7	6.0 - 7.4
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	6.8	6.1 - 7.6
All Chemistry Instruments	6	-	-	-	6.8	6.1 - 7.6
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	7.03	0.19	2.7	7.0	6.3 - 7.8
Beckman AU						
Beckman AU systems	31	6.82	0.18	2.7	6.8	6.1 - 7.6
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	6.81	0.20	2.9	6.9	6.1 - 7.5
Roche Integra						
Roche Integra	14	6.59	0.12	1.8	6.6	5.9 - 7.3
Siemens Healthcare						
Siemens Dimension	24	7.15	0.11	1.5	7.1	6.4 - 7.9
All Chemistry Instruments	25	7.14	0.12	1.7	7.1	6.4 - 7.9
VITROS						
VITROS 250,350,400 500,700,750,950	20	6.69	0.14	2.1	6.7	6.0 - 7.4
All Chemistry Instruments	23	6.67	0.15	2.2	6.7	5.9 - 7.4

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	181	10.0	0.9	9.3	10	7 - 12	180	25.8	1.9	7.3	26	23 - 29
All Alfa Wassermann Reagents	26	10.3	0.5	5.2	10	8 - 13	25	27.1	1.2	4.3	27	24 - 30
All Horiba Pentra Reagents	17	9.4	0.7	7.5	9	7 - 12	17	24.8	0.8	3.4	25	22 - 27
All Roche Reagents	24	10.0	0.6	5.9	10	8 - 12	24	26.3	1.2	4.5	26	23 - 29
Abaxis Piccolo												
Abaxis Piccolo - waived	15	10.5	0.8	7.9	11	8 - 13	16	24.9	0.8	3.1	25	22 - 28
All Chemistry Instruments	17	10.6	0.8	7.5	11	8 - 13	18	24.9	0.8	3.0	25	22 - 28
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	10.3	0.5	5.2	10	8 - 13	25	27.1	1.2	4.3	27	24 - 30
Beckman AU												
Beckman AU systems	31	10.5	0.5	4.8	11	8 - 13	31	27.0	0.9	3.4	27	24 - 30
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	9.4	0.7	7.5	9	7 - 12	17	24.8	0.8	3.4	25	22 - 27
Roche Integra												
Roche Integra	14	9.9	0.5	5.4	10	7 - 12	14	26.0	0.9	3.4	26	23 - 29
Siemens Healthcare												
Siemens Dimension	24	10.4	0.6	5.6	10	8 - 13	24	27.2	0.9	3.2	27	24 - 30
All Chemistry Instruments	27	10.4	0.6	5.4	10	8 - 13	27	27.0	0.9	3.5	27	24 - 30
VITROS												
VITROS 250,350,400 500,700,750,950	20	8.4	0.5	6.0	8	6 - 11	20	22.1	0.9	4.1	22	20 - 25
All Chemistry Instruments	23	8.3	0.5	5.8	8	6 - 11	23	22.0	0.9	4.0	22	20 - 25

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	170	34.8	2.3	6.6	35	31 - 38	169	13.9	1.1	8.1	14	11 - 16
All Alfa Wassermann Reagents	26	35.8	1.6	4.4	36	32 - 40	26	14.3	0.9	6.2	14	12 - 17
All Horiba Pentra Reagents	17	33.3	1.3	3.8	33	30 - 37	17	13.3	0.7	5.2	13	11 - 16
All Roche Reagents	24	35.5	1.3	3.5	35	32 - 39	24	14.2	0.6	4.5	14	12 - 17
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	33	31 - 38	5	-	-	-	14	11 - 16
All Chemistry Instruments	6	-	-	-	33	30 - 37	6	-	-	-	14	11 - 16
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	35.8	1.6	4.4	36	32 - 40	26	14.3	0.9	6.2	14	12 - 17
Beckman AU												
Beckman AU systems	31	36.3	0.9	2.6	36	33 - 40	30	14.5	0.6	3.9	14	12 - 17
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	33.3	1.3	3.8	33	30 - 37	17	13.3	0.7	5.2	13	11 - 16
Roche Integra												
Roche Integra	14	35.1	0.7	2.1	35	31 - 39	14	14.0	0.6	4.0	14	12 - 16
Siemens Healthcare												
Siemens Dimension	24	36.3	1.1	3.0	36	33 - 40	24	14.8	0.9	5.9	15	12 - 17
All Chemistry Instruments	27	36.3	1.1	3.0	36	33 - 40	27	14.8	0.8	5.7	15	12 - 17
VITROS												
VITROS 250,350,400 500,700,750,950	20	30.5	0.9	3.1	31	27 - 34	20	12.0	0.5	3.8	12	10 - 14
All Chemistry Instruments	23	30.5	0.9	2.9	30	27 - 34	23	12.0	0.5	4.0	12	9 - 14

Urea Nitrogen (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	33.1	2.4	7.2	34	30 - 37
All Alfa Wassermann Reagents	26	34.3	1.8	5.3	35	31 - 38
All Horiba Pentra Reagents	17	31.7	1.0	3.1	32	28 - 35
All Roche Reagents	24	33.8	1.3	3.7	34	30 - 37
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	31	30 - 37
All Chemistry Instruments	6	-	-	-	32	28 - 35
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	26	34.3	1.8	5.3	35	31 - 38
Beckman AU						
Beckman AU systems	31	34.6	0.9	2.5	35	31 - 38
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	31.7	1.0	3.1	32	28 - 35
Roche Integra						
Roche Integra	14	33.3	0.7	2.2	33	30 - 37
Siemens Healthcare						
Siemens Dimension	23	34.7	1.3	3.8	34	31 - 38
All Chemistry Instruments	26	34.7	1.3	3.6	35	31 - 38
VITROS						
VITROS 250,350,400 500,700,750,950	20	28.8	0.9	3.2	29	26 - 32
All Chemistry Instruments	23	28.7	0.9	3.1	29	26 - 32

Uric Acid (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	114	8.62	0.39	4.6	8.6	7.1 - 10.1
All Alfa Wassermann Reagents	15	8.41	0.31	3.7	8.5	6.9 - 9.9
All Roche Reagents	19	8.53	0.19	2.2	8.6	7.0 - 10.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	15	8.41	0.31	3.7	8.5	6.9 - 9.9
Beckman AU						
Beckman AU systems	23	8.82	0.18	2.1	8.8	7.3 - 10.4
Horiba ABX Pentra						
Horiba ABX Pentra 400	10	8.58	0.30	3.5	8.6	7.1 - 10.1
Roche Integra						
Roche Integra	11	8.65	0.11	1.3	8.6	7.1 - 10.2
Siemens Healthcare						
Siemens Dimension	17	8.38	0.21	2.5	8.4	6.9 - 9.9
All Chemistry Instruments	19	8.39	0.20	2.4	8.4	6.9 - 9.9
VITROS						
VITROS 250,350,400 500,700,750,950	10	8.76	0.40	4.6	8.7	7.2 - 10.3
All Chemistry Instruments	12	8.72	0.38	4.3	8.7	7.2 - 10.2

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	176	91.2	1.9	2.1	91	86 - 96	172	103.3	2.0	1.9	103	98 - 109
Abaxis Piccolo												
Abaxis Piccolo - waived	16	95.5	1.9	1.9	95	90 - 101	16	105.9	2.2	2.1	106	100 - 112
All Chemistry Instruments	18	95.4	1.9	1.9	95	90 - 101	18	105.8	2.2	2.1	106	100 - 112
ISE Diluted												
Beckman AU systems	31	91.5	0.9	1.0	92	86 - 97	30	102.0	0.8	0.8	102	96 - 108
Roche Integra	14	91.9	1.2	1.3	92	87 - 97	14	105.4	2.1	2.0	105	100 - 111
Siemens Dimension QuickLyte - Xpand/EXL	18	89.6	1.1	1.2	90	85 - 95	18	104.8	1.5	1.4	105	99 - 111
All Chemistry Instruments	89	91.0	1.5	1.6	91	86 - 96	88	103.3	1.9	1.9	103	98 - 109
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	25	90.6	1.2	1.3	91	86 - 96	25	103.4	1.0	1.0	103	98 - 109
Horiba ABX Pentra 400 / C400	16	88.8	2.1	2.4	89	84 - 94	13	101.3	3.1	3.1	101	96 - 107
All Chemistry Instruments	48	90.1	1.8	2.0	90	85 - 95	44	102.9	1.8	1.8	103	97 - 109
VITROS												
VITROS 250,350,400 500,700,750,950	20	91.6	0.9	1.0	92	87 - 97	20	102.3	1.2	1.1	103	97 - 108
All Chemistry Instruments	23	91.6	0.9	1.0	92	87 - 97	23	102.3	1.1	1.1	102	97 - 108
<u>Method/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	161	109.8	2.7	2.5	109	104 - 116	162	94.1	1.6	1.7	94	89 - 99
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	112	106 - 118	5	-	-	-	99	93 - 104
All Chemistry Instruments	6	-	-	-	112	105 - 117	6	-	-	-	98	93 - 104
ISE Diluted												
Beckman AU systems	31	107.4	1.0	0.9	107	101 - 113	31	94.3	0.8	0.8	94	89 - 100
Roche Integra	14	113.1	3.3	2.9	113	107 - 119	13	95.2	1.3	1.4	95	90 - 100
Siemens Dimension QuickLyte - Xpand/EXL	18	112.2	1.4	1.3	112	106 - 118	18	93.4	0.9	1.0	93	88 - 99
All Chemistry Instruments	89	109.9	3.2	2.9	109	104 - 116	87	94.2	1.3	1.3	94	89 - 99
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	25	111.6	1.2	1.1	112	105 - 118	25	93.9	1.4	1.5	94	89 - 99
Horiba ABX Pentra 400 / C400	13	109.2	4.2	3.8	110	103 - 115	16	92.5	3.1	3.3	93	87 - 98
All Chemistry Instruments	44	110.9	2.3	2.1	111	105 - 117	48	93.4	2.2	2.3	94	88 - 99
VITROS												
VITROS 250,350,400 500,700,750,950	20	108.4	1.0	1.0	109	102 - 114	20	94.5	1.3	1.4	95	89 - 100
All Chemistry Instruments	23	108.3	1.0	0.9	108	102 - 114	23	94.4	1.2	1.3	95	89 - 100

Chloride (mmol/L)**Specimen CH-15**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	161	108.9	2.7	2.5	108	103 - 115
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	110	105 - 117
All Chemistry Instruments	6	-	-	-	110	104 - 117
ISE Diluted						
Beckman AU systems	31	106.5	1.0	0.9	106	101 - 112
Roche Integra	14	111.9	3.0	2.7	112	106 - 118
Siemens Dimension QuickLyte - Xpand/EXL	18	110.7	1.5	1.3	111	105 - 117
All Chemistry Instruments	88	108.6	2.8	2.6	108	103 - 115
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	25	110.5	2.2	2.0	110	104 - 117
Horiba ABX Pentra 400 / C400	12	109.1	3.8	3.5	110	103 - 115
All Chemistry Instruments	44	109.9	2.8	2.5	110	104 - 116
VITROS						
VITROS 250,350,400 500,700,750,950	20	107.5	1.2	1.1	108	102 - 113
All Chemistry Instruments	23	107.4	1.1	1.0	107	102 - 113

CO₂ (mmol/L)**Specimen CH-15**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	163	30.0	2.8	9.5	30	23 - 36
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	30	24 - 36
All Chemistry Instruments	6	-	-	-	30	23 - 36
Enzymatic Reagent						
Alfa Wassermann ACE Alera/Axcel	14	30.3	3.8	12.6	30	24 - 37
Beckman AU systems	27	31.5	1.8	5.9	32	25 - 38
Horiba ABX Pentra 400	13	30.0	2.7	9.0	30	24 - 36
Roche Integra	13	26.9	2.8	10.6	28	21 - 33
Siemens Dimension	19	31.8	1.8	5.8	32	25 - 39
All Chemistry Instruments	104	30.2	2.8	9.4	30	24 - 37
ISE Diluted						
All Chemistry Instruments	12	30.7	5.2	17.0	29	24 - 37
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	11	30.4	3.3	11.0	31	24 - 37
All Chemistry Instruments	18	30.2	3.1	10.3	30	24 - 37
VITROS						
VITROS 250,350,400 500,700,750,950	20	28.7	2.9	10.0	29	22 - 35
All Chemistry Instruments	23	28.9	2.7	9.4	29	23 - 35

Potassium (mmol/L)**Specimen CH-15**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	6.01	0.11	1.8	6.0	5.5 - 6.6
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	5.9	5.2 - 6.3
All Chemistry Instruments	6	-	-	-	5.9	5.2 - 6.3
ISE Diluted						
Beckman AU systems	31	5.95	0.06	1.0	6.0	5.4 - 6.5
Roche Integra	14	6.00	0.07	1.1	6.0	5.5 - 6.5
Siemens Dimension QuickLyte - Xpand/EXL	19	6.04	0.06	1.0	6.0	5.5 - 6.6
All Chemistry Instruments	91	6.00	0.09	1.5	6.0	5.4 - 6.5
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	25	6.13	0.11	1.8	6.1	5.6 - 6.7
Horiba ABX Pentra 400	16	5.91	0.06	1.0	5.9	5.4 - 6.5
All Chemistry Instruments	49	6.03	0.14	2.4	6.0	5.5 - 6.6
VITROS						
VITROS 250,350,400 500,700,750,950	20	6.06	0.05	0.8	6.1	5.5 - 6.6
All Chemistry Instruments	23	6.06	0.05	0.8	6.1	5.5 - 6.6

Sodium (mmol/L)

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

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	182	124.7	2.3	1.9	125	120 - 129	180	143.9	2.2	1.5	144	139 - 148
Abaxis Piccolo												
Abaxis Piccolo - waived	15	127.1	1.8	1.5	127	123 - 132	15	148.2	2.5	1.7	147	144 - 153
All Chemistry Instruments	18	127.4	1.9	1.5	128	123 - 132	18	148.3	2.3	1.6	149	144 - 153
ISE Diluted												
Beckman AU systems	30	125.0	1.1	0.9	125	121 - 129	30	143.3	1.1	0.8	143	139 - 148
Roche Integra	14	124.5	1.2	1.0	125	120 - 129	14	143.4	1.0	0.7	143	139 - 148
Siemens Dimension QuickLyte - Xpand/EXL	19	127.3	1.4	1.1	128	123 - 132	19	145.3	1.9	1.3	145	141 - 150
All Chemistry Instruments	91	125.4	1.8	1.4	125	121 - 130	90	143.9	1.8	1.2	144	139 - 148
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	26	121.9	1.3	1.1	122	117 - 126	26	142.3	1.3	0.9	142	138 - 147
Horiba ABX Pentra 400 / C400	16	122.2	1.4	1.1	122	118 - 127	16	142.3	1.3	0.9	142	138 - 147
All Chemistry Instruments	50	122.3	1.6	1.3	122	118 - 127	50	142.4	1.4	1.0	142	138 - 147
VITROS												
VITROS 250,350,400 500,700,750,950	20	125.2	1.1	0.9	125	121 - 130	20	144.5	1.5	1.0	145	140 - 149
All Chemistry Instruments	23	124.9	1.3	1.0	125	120 - 129	23	144.3	1.5	1.0	144	140 - 149
<u>Method/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	166	154.3	2.1	1.4	154	150 - 159	168	129.2	2.1	1.6	130	125 - 134
Abaxis Piccolo												
Abaxis Piccolo - waived	4	-	-	-	163	158 - 166	4	-	-	-	133	128 - 137
All Chemistry Instruments	6	-	-	-	163	158 - 166	6	-	-	-	133	128 - 137
ISE Diluted												
Beckman AU systems	29	153.4	1.1	0.7	154	149 - 158	31	129.6	1.1	0.8	130	125 - 134
Roche Integra	14	152.6	1.0	0.7	153	148 - 157	14	128.7	0.8	0.6	129	124 - 133
Siemens Dimension QuickLyte - Xpand/EXL	19	154.8	2.1	1.3	155	150 - 159	19	131.6	1.7	1.3	132	127 - 136
All Chemistry Instruments	92	153.7	2.1	1.3	154	149 - 158	90	129.9	1.6	1.2	130	125 - 134
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	26	155.3	1.6	1.0	155	151 - 160	25	126.8	1.6	1.3	127	122 - 131
Horiba ABX Pentra 400	15	154.1	1.6	1.1	154	150 - 159	16	127.1	1.8	1.4	127	123 - 132
All Chemistry Instruments	49	154.7	1.7	1.1	155	150 - 159	48	127.1	1.8	1.4	127	123 - 132
VITROS												
VITROS 250,350,400 500,700,750,950	20	155.7	2.2	1.4	156	151 - 160	20	130.0	1.1	0.9	130	125 - 134
All Chemistry Instruments	23	155.5	2.2	1.4	155	151 - 160	23	129.8	1.2	0.9	130	125 - 134

Sodium (mmol/L)**Specimen CH-15**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	164	152.4	2.0	1.3	152	148 - 157
Abaxis Piccolo						
Abaxis Piccolo - waived	4	-	-	-	160	154 - 162
All Chemistry Instruments	6	-	-	-	159	154 - 162
ISE Diluted						
Beckman AU systems	31	151.5	1.3	0.9	152	147 - 156
Roche Integra	14	150.8	1.2	0.8	150	146 - 155
Siemens Dimension QuickLyte - Xpand/EXL	19	152.8	2.3	1.5	153	148 - 157
All Chemistry Instruments	89	151.9	1.8	1.2	152	147 - 156
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	24	152.7	1.9	1.2	152	148 - 157
Horiba ABX Pentra 400	16	151.8	1.7	1.1	152	147 - 156
All Chemistry Instruments	47	152.0	1.5	1.0	152	148 - 157
VITROS						
VITROS 250,350,400 500,700,750,950	20	154.0	1.9	1.2	154	150 - 158
All Chemistry Instruments	23	153.7	2.0	1.3	154	149 - 158

TIBC – Calculated (µg/dL)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	146.1	25.1	17.2	155	95 - 197	11	242.0	54.1	22.3	277	133 - 351
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	5	144.2	21.1	14.6	152	102 - 187	5	239.6	52.3	21.8	263	135 - 345
	Specimen CH-13						Specimen CH-14					
All Method	11	299.2	74.6	24.9	337	149 - 449	11	171.8	34.5	20.1	195	102 - 241
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	5	297.0	73.9	24.9	332	149 - 445	5	169.2	32.2	19.1	174	104 - 234
	Specimen CH-15											
All Method	11	288.1	70.8	24.6	324	146 - 430						
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	5	285.6	69.6	24.4	317	146 - 425						

TIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	148.1	34.0	23.0	133	80 - 217	18	234.7	25.3	10.8	231	184 - 286
Siemens Healthcare												
Siemens Dimension	10	121.9	7.8	6.4	123	97 - 147	10	216.4	8.7	4.0	217	173 - 260
All Chemistry Instruments	11	122.9	8.1	6.6	124	98 - 148	11	216.2	8.3	3.8	215	172 - 260
	Specimen CH-13						Specimen CH-14					
All Method	18	284.8	20.6	7.2	283	227 - 342	18	170.8	32.8	19.2	167	105 - 237
Siemens Healthcare												
Siemens Dimension	10	270.2	5.9	2.2	272	216 - 325	10	145.1	6.7	4.6	143	116 - 175
All Chemistry Instruments	11	271.4	6.8	2.5	272	217 - 326	11	147.1	9.1	6.2	143	117 - 177
	Specimen CH-15											
All Method	18	275.4	20.0	7.2	280	220 - 331						
Siemens Healthcare												
Siemens Dimension	10	260.3	7.1	2.7	262	208 - 313						
All Chemistry Instruments	11	263.6	13.0	4.9	262	210 - 317						

UIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-11						Specimen CH-12						
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	22	98.6	10.7	10.8	99	77 - 120	22	127.0	10.3	8.1	126	101 - 153	
Beckman AU													
Beckman AU systems	13	99.8	8.3	8.3	99	79 - 120	13	127.8	7.7	6.0	127	102 - 154	
	Specimen CH-13						Specimen CH-14						
All Method	22	142.7	9.5	6.6	143	114 - 172	22	105.4	10.3	9.7	106	84 - 127	
Beckman AU													
Beckman AU systems	13	143.4	7.3	5.1	144	114 - 173	13	106.5	8.2	7.7	107	85 - 128	
	Specimen CH-15												
All Method	22	137.2	11.7	8.5	139	109 - 165							
Beckman AU													
Beckman AU systems	13	138.7	8.3	6.0	139	110 - 167							

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	<u>Specimen CH-11</u>						<u>Specimen CH-12</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	42.3	4.7	11.2	43	33 - 51	175	149.7	14.5	9.7	149	119 - 180
All Alfa Wassermann Reagents	24	34.3	3.4	9.8	34	27 - 42	22	130.2	4.0	3.1	131	104 - 157
All Horiba Pentra Reagents	18	48.1	3.4	7.2	49	38 - 58	18	173.7	9.7	5.6	176	138 - 209
All Roche Reagents	24	42.8	1.4	3.2	43	34 - 52	24	151.4	3.8	2.5	152	121 - 182
All Siemens Healthcare	6	47.7	2.4	5.1	48	38 - 58	6	166.2	8.6	5.2	166	132 - 200
Abaxis Piccolo												
Abaxis Piccolo - waived	16	44.1	2.0	4.6	44	35 - 53	16	138.4	2.9	2.1	139	110 - 167
All Chemistry Instruments	18	44.1	1.9	4.3	44	35 - 53	18	138.7	2.9	2.1	139	110 - 167
Abbott Architect												
Abbott Architect	5	44.6	0.5	1.2	45	35 - 54	5	162.2	3.8	2.4	161	129 - 195
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	34.3	3.4	9.8	34	27 - 42	22	130.2	4.0	3.1	131	104 - 157
Beckman AU												
Beckman AU systems	31	39.8	1.8	4.6	39	31 - 48	29	139.9	4.9	3.5	140	111 - 168
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	48.1	3.4	7.2	49	38 - 58	18	173.7	9.7	5.6	176	138 - 209
Roche cobas c 501												
Roche cobas 6000 / c 501	9	43.1	1.5	3.4	43	34 - 52	9	152.7	3.8	2.5	154	122 - 184
Roche Integra												
Roche Integra	14	42.6	1.3	3.2	43	34 - 52	14	150.4	3.6	2.4	151	120 - 181
Siemens Healthcare												
All Chemistry Instruments	5	47.2	2.4	5.1	47	37 - 57	5	163.2	5.1	3.1	165	130 - 196
Siemens Healthcare ALTi												
Siemens Dimension	20	47.1	2.6	5.5	48	37 - 57	20	163.8	4.1	2.5	162	131 - 197
All Chemistry Instruments	21	47.0	2.5	5.4	48	37 - 57	21	163.3	4.5	2.8	162	130 - 196
VITROS												
VITROS 250,350,400 500,700,750,950	5	65.8	4.4	6.7	68	52 - 79	7	159.4	9.8	6.2	164	127 - 192
All Chemistry Instruments	6	62.0	10.1	16.3	66	49 - 75	8	158.1	9.8	6.2	161	126 - 190
VITROS ALTV												
VITROS 250,350,400 500,700,750,950	13	40.3	0.9	2.4	40	32 - 49	13	145.3	6.1	4.2	145	116 - 175
All Chemistry Instruments	15	40.2	1.1	2.7	40	32 - 49	15	145.3	5.9	4.1	145	116 - 175

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	165	209.5	19.4	9.3	210	167 - 252	164	68.9	7.6	11.1	69	55 - 83
All Alfa Wassermann Reagents	24	183.0	3.4	1.8	184	146 - 220	24	57.9	2.4	4.1	58	46 - 70
All Horiba Pentra Reagents	18	241.4	13.3	5.5	244	193 - 290	18	78.8	4.6	5.8	80	63 - 95
All Roche Reagents	24	211.0	5.7	2.7	211	168 - 254	24	68.9	1.8	2.5	69	55 - 83
All Siemens Healthcare	6	230.8	11.9	5.2	229	184 - 277	6	76.5	3.4	4.4	77	61 - 92
Abaxis Piccolo												
Abaxis Piccolo - waived	5	191.4	5.4	2.8	193	153 - 230	5	66.6	2.1	3.1	67	53 - 80
All Chemistry Instruments	6	193.5	7.1	3.7	194	154 - 233	6	66.7	1.9	2.8	67	53 - 81
Abbott Architect												
Abbott Architect	5	228.2	3.1	1.4	227	182 - 274	5	73.4	1.5	2.1	73	58 - 89
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	183.0	3.4	1.8	184	146 - 220	24	57.9	2.4	4.1	58	46 - 70
Beckman AU												
Beckman AU systems	29	196.3	6.5	3.3	196	157 - 236	29	63.7	2.1	3.2	63	50 - 77
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	241.4	13.3	5.5	244	193 - 290	18	78.8	4.6	5.8	80	63 - 95
Roche cobas c 501												
Roche cobas 6000 / c 501	9	214.8	5.3	2.5	216	171 - 258	9	69.3	1.9	2.7	70	55 - 84
Roche Integra												
Roche Integra	14	208.4	4.7	2.3	208	166 - 251	14	68.5	1.7	2.5	69	54 - 83
Siemens Healthcare												
All Chemistry Instruments	5	226.4	5.4	2.4	228	181 - 272	5	75.6	2.9	3.8	75	60 - 91
Siemens Healthcare ALTi												
Siemens Dimension	20	226.7	5.5	2.4	226	181 - 273	20	75.7	2.9	3.8	76	60 - 91
All Chemistry Instruments	21	226.5	5.4	2.4	225	181 - 272	21	75.6	2.9	3.8	75	60 - 91
VITROS												
VITROS 250,350,400 500,700,750,950	7	214.0	8.8	4.1	215	171 - 257	7	82.9	11.1	13.3	88	66 - 100
All Chemistry Instruments	8	214.0	8.1	3.8	215	171 - 257	8	81.3	11.2	13.8	87	65 - 98
VITROS ALTV												
VITROS 250,350,400 500,700,750,950	13	203.5	7.0	3.4	204	162 - 245	13	66.9	1.7	2.5	66	53 - 81
All Chemistry Instruments	15	203.3	6.7	3.3	204	162 - 244	15	66.8	1.8	2.7	66	53 - 81

ALT (SGPT) (IU/L)

Specimen CH-15

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	164	198.2	18.6	9.4	197	158 - 238
All Alfa Wassermann Reagents	24	173.8	5.3	3.0	173	139 - 209
All Horiba Pentra Reagents	18	228.6	12.3	5.4	231	182 - 275
All Roche Reagents	24	199.6	5.7	2.8	199	159 - 240
All Siemens Healthcare	6	218.3	11.2	5.1	218	174 - 262
Abaxis Piccolo						
Abaxis Piccolo - waived	5	181.6	1.8	1.0	181	145 - 218
All Chemistry Instruments	6	181.5	1.6	0.9	181	145 - 218
Abbott Architect						
Abbott Architect	5	215.6	3.4	1.6	215	172 - 259
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	173.8	5.3	3.0	173	139 - 209
Beckman AU						
Beckman AU systems	29	185.4	5.7	3.1	184	148 - 223
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	228.6	12.3	5.4	231	182 - 275
Roche cobas c 501						
Roche cobas 6000 / c 501	9	203.1	5.6	2.7	204	162 - 244
Roche Integra						
Roche Integra	14	197.1	4.7	2.4	198	157 - 237
Siemens Healthcare						
All Chemistry Instruments	5	214.4	6.4	3.0	216	171 - 258
Siemens Healthcare ALTI						
Siemens Dimension	20	214.6	5.8	2.7	214	171 - 258
All Chemistry Instruments	21	214.3	5.8	2.7	213	171 - 258
VITROS						
VITROS 250,350,400 500,700,750,950	7	204.1	8.8	4.3	205	163 - 245
All Chemistry Instruments	8	203.9	8.2	4.0	205	163 - 245
VITROS ALTV						
VITROS 250,350,400 500,700,750,950	12	191.6	4.2	2.2	193	153 - 230
All Chemistry Instruments	14	191.3	4.9	2.6	193	153 - 230

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	180	57.7	4.8	8.4	58	40 - 75	180	184.4	24.0	13.0	188	129 - 240
All Alfa Wassermann Reagents	24	57.0	3.5	6.2	57	39 - 75	24	188.6	11.8	6.3	189	132 - 246
All Horiba Pentra Reagents	18	65.0	2.6	4.0	66	45 - 85	18	213.9	7.4	3.5	213	149 - 279
All Roche Reagents	24	57.8	2.3	4.0	58	40 - 76	24	192.9	7.8	4.0	193	135 - 251
Abaxis Piccolo												
Abaxis Piccolo - waived	16	54.3	5.5	10.1	54	38 - 71	16	150.4	7.7	5.1	150	105 - 196
All Chemistry Instruments	18	54.8	5.4	9.8	55	38 - 72	18	151.0	7.4	4.9	151	105 - 197
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	57.0	3.5	6.2	57	39 - 75	24	188.6	11.8	6.3	189	132 - 246
Beckman AU												
Beckman AU systems	30	53.0	3.4	6.4	54	37 - 69	30	179.4	10.1	5.6	181	125 - 234
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	65.1	2.6	4.1	66	45 - 85	17	214.5	7.2	3.4	213	150 - 279
Roche Integra												
Roche Integra	14	57.5	2.1	3.7	58	40 - 75	14	192.6	7.6	4.0	193	134 - 251
Siemens Healthcare ALPi												
Siemens Dimension	19	61.1	1.1	1.8	61	42 - 80	19	211.3	3.3	1.5	212	147 - 275
All Chemistry Instruments	20	61.3	1.4	2.3	61	42 - 80	20	211.7	3.5	1.7	212	148 - 276
VITROS												
VITROS 250,350,400 500,700,750,950	20	58.2	2.7	4.6	59	40 - 76	20	150.1	7.6	5.1	151	105 - 196
All Chemistry Instruments	23	57.9	2.7	4.6	58	40 - 76	23	149.0	7.8	5.2	150	104 - 194

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	251.8	38.6	15.3	260	176 - 328	168	91.6	7.7	8.4	91	64 - 120
All Alfa Wassermann Reagents	24	257.8	16.5	6.4	257	180 - 336	24	90.3	5.6	6.2	91	63 - 118
All Horiba Pentra Reagents	18	292.2	11.4	3.9	291	204 - 380	18	103.0	4.3	4.2	102	72 - 134
All Roche Reagents	24	264.3	10.6	4.0	264	185 - 344	24	91.7	3.6	3.9	92	64 - 120
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	199	176 - 328	5	-	-	-	86	64 - 120
All Chemistry Instruments	6	-	-	-	200	138 - 257	6	-	-	-	86	59 - 112
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	257.8	16.5	6.4	257	180 - 336	24	90.3	5.6	6.2	91	63 - 118
Beckman AU												
Beckman AU systems	30	246.5	13.3	5.4	246	172 - 321	30	85.1	5.0	5.8	86	59 - 111
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	293.1	11.1	3.8	292	205 - 382	17	103.1	4.4	4.3	102	72 - 135
Roche Integra												
Roche Integra	14	262.9	10.3	3.9	263	184 - 342	14	91.0	3.4	3.7	91	63 - 119
Siemens Healthcare ALPi												
Siemens Dimension	19	290.6	4.4	1.5	290	203 - 378	19	99.0	1.7	1.7	99	69 - 129
All Chemistry Instruments	20	291.1	4.8	1.7	291	203 - 379	20	99.2	1.9	1.9	99	69 - 129
VITROS												
VITROS 250,350,400 500,700,750,950	20	178.5	9.1	5.1	179	124 - 233	20	87.6	3.8	4.4	88	61 - 114
All Chemistry Instruments	23	177.2	9.4	5.3	177	124 - 231	23	86.7	4.2	4.9	87	60 - 113

Alkaline Phosphatase (IU/L)

Specimen CH-15

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	167	239.8	36.0	15.0	247	167 - 312
All Alfa Wassermann Reagents	24	248.3	16.6	6.7	248	173 - 323
All Horiba Pentra Reagents	18	277.2	10.1	3.7	279	194 - 361
All Roche Reagents	24	250.8	9.9	3.9	251	175 - 326
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	188	167 - 312
All Chemistry Instruments	6	-	-	-	192	134 - 250
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	248.3	16.6	6.7	248	173 - 323
Beckman AU						
Beckman AU systems	30	233.7	12.5	5.3	234	163 - 304
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	278.0	9.8	3.5	280	194 - 362
Roche Integra						
Roche Integra	14	250.4	10.2	4.1	252	175 - 326
Siemens Healthcare ALPi						
Siemens Dimension	18	276.9	4.2	1.5	277	193 - 361
All Chemistry Instruments	19	277.3	4.4	1.6	277	194 - 361
VITROS						
VITROS 250,350,400 500,700,750,950	20	175.8	10.2	5.8	179	123 - 229
All Chemistry Instruments	23	174.2	10.7	6.1	176	121 - 227

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	156	85.8	7.0	8.2	88	68 - 103	155	180.6	16.7	9.3	183	144 - 217
All Alfa Wassermann Reagents	24	77.7	4.0	5.2	78	62 - 94	24	165.6	5.7	3.5	165	132 - 199
All Horiba Pentra Reagents	18	93.4	4.7	5.0	94	74 - 113	18	195.2	9.5	4.9	198	156 - 235
All Roche Reagents	24	89.3	3.7	4.2	90	71 - 108	24	185.2	7.3	4.0	186	148 - 223
Abaxis Piccolo												
Abaxis Piccolo - waived	16	88.3	1.6	1.8	88	70 - 106	16	178.1	4.9	2.7	178	142 - 214
All Chemistry Instruments	18	88.3	1.6	1.8	88	70 - 106	18	177.8	4.7	2.6	178	142 - 214
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	77.7	4.0	5.2	78	62 - 94	24	165.6	5.7	3.5	165	132 - 199
Beckman AU												
Beckman AU systems	29	77.6	2.3	3.0	77	62 - 94	30	160.3	6.6	4.1	161	128 - 193
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	93.4	4.7	5.0	94	74 - 113	18	195.2	9.5	4.9	198	156 - 235
Roche Integra												
Roche Integra	14	89.5	2.9	3.3	90	71 - 108	14	184.8	5.6	3.0	185	147 - 222
Siemens Healthcare												
Siemens Dimension	24	88.9	3.1	3.5	89	71 - 107	24	190.5	5.0	2.6	190	152 - 229
All Chemistry Instruments	26	89.0	3.0	3.3	89	71 - 107	26	190.2	4.9	2.6	190	152 - 229
VITROS												
VITROS 250,350,400 500,700,750,950	20	89.6	3.1	3.5	89	71 - 108	19	204.6	5.3	2.6	205	163 - 246
All Chemistry Instruments	23	89.6	3.2	3.5	89	71 - 108	22	204.9	5.0	2.4	206	163 - 246

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	143	235.0	26.8	11.4	237	188 - 282	144	108.1	9.2	8.5	110	86 - 130
All Alfa Wassermann Reagents	24	214.2	6.3	3.0	213	171 - 258	24	99.4	4.3	4.3	99	79 - 120
All Horiba Pentra Reagents	18	248.9	11.1	4.5	252	199 - 299	18	118.0	5.3	4.5	119	94 - 142
All Roche Reagents	24	236.6	10.0	4.2	237	189 - 284	23	112.4	3.5	3.1	113	89 - 135
Abaxis Piccolo												
Abaxis Piccolo - waived	5	-	-	-	224	188 - 282	5	-	-	-	107	86 - 130
All Chemistry Instruments	6	-	-	-	225	180 - 270	6	-	-	-	108	86 - 130
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	214.2	6.3	3.0	213	171 - 258	24	99.4	4.3	4.3	99	79 - 120
Beckman AU												
Beckman AU systems	30	205.9	8.8	4.3	205	164 - 248	29	96.9	2.8	2.9	97	77 - 117
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	248.9	11.1	4.5	252	199 - 299	18	118.0	5.3	4.5	119	94 - 142
Roche Integra												
Roche Integra	14	236.0	8.2	3.5	237	188 - 284	14	111.9	3.1	2.8	112	89 - 135
Siemens Healthcare												
Siemens Dimension	23	246.6	6.1	2.5	246	197 - 296	24	113.5	2.7	2.4	114	90 - 137
All Chemistry Instruments	25	246.8	6.3	2.6	246	197 - 297	26	113.7	2.7	2.3	114	90 - 137
VITROS												
VITROS 250,350,400 500,700,750,950	19	281.6	9.6	3.4	282	225 - 338	20	115.5	3.8	3.3	116	92 - 139
All Chemistry Instruments	22	282.4	9.6	3.4	282	225 - 339	23	115.3	3.8	3.3	115	92 - 139

AST (SGOT) (IU/L)

Specimen CH-15

<u><i>Instrument/Reagent</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	144	224.6	26.4	11.8	226	179 - 270
All Alfa Wassermann Reagents	23	204.4	6.9	3.4	203	163 - 246
All Horiba Pentra Reagents	18	239.8	10.3	4.3	244	191 - 288
All Roche Reagents	24	225.4	8.9	3.9	225	180 - 271
Abaxis Piccolo						
Abaxis Piccolo - waived	5	-	-	-	213	179 - 270
All Chemistry Instruments	6	-	-	-	214	171 - 257
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	23	204.4	6.9	3.4	203	163 - 246
Beckman AU						
Beckman AU systems	30	197.1	8.0	4.0	196	157 - 237
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	239.8	10.3	4.3	244	191 - 288
Roche Integra						
Roche Integra	14	225.1	6.6	2.9	225	180 - 271
Siemens Healthcare						
Siemens Dimension	23	235.3	4.4	1.9	236	188 - 283
All Chemistry Instruments	25	235.2	4.5	1.9	236	188 - 283
VITROS						
VITROS 250,350,400 500,700,750,950	20	269.8	9.6	3.6	270	215 - 324
All Chemistry Instruments	23	269.6	9.5	3.5	270	215 - 324

Amylase (IU/L)

Specimen CH-15

All Method	44	127.8	20.4	15.9	133	89 - 167
All Roche Reagents	9	133.8	2.3	1.7	133	93 - 174
Beckman AU						
Beckman AU systems	11	115.1	11.8	10.2	112	80 - 150
Roche Integra						
Roche Integra	5	134.4	3.0	2.3	135	94 - 175
Siemens Healthcare						
Siemens Dimension	7	149.1	2.1	1.4	150	104 - 194
VITROS						
VITROS 250,350,400 500,700,750,950	6	91.2	3.8	4.1	91	63 - 119

Lactate Dehydrogenase (IU/L)

<u>Instrument/Reagent</u>	<u>Specimen CH-11</u>						<u>Specimen CH-12</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	49	200.8	24.7	12.3	211	160 - 241	49	457.0	55.0	12.0	479	365 - 549
All Alfa Wassermann Reagents	4	150.5	5.3	3.5	152	120 - 181	4	338.5	13.0	3.8	340	270 - 407
All Horiba Pentra Reagents	6	219.5	9.0	4.1	220	175 - 264	6	500.0	23.4	4.7	503	400 - 600
All Roche Reagents	18	216.1	5.4	2.5	217	172 - 260	18	490.9	12.7	2.6	491	392 - 590
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	4	150.5	5.3	3.5	152	120 - 181	4	338.5	13.0	3.8	340	270 - 407
Beckman AU												
Beckman AU systems	11	174.7	7.0	4.0	178	139 - 210	11	403.2	16.6	4.1	399	322 - 484
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	6	219.5	9.0	4.1	220	175 - 264	6	500.0	23.4	4.7	503	400 - 600
Roche cobas c 501												
Roche cobas 6000 / c 501	7	212.0	4.0	1.9	212	169 - 255	7	485.6	10.5	2.2	488	388 - 583
Roche Integra												
Roche Integra	12	221.2	9.8	4.4	220	176 - 266	12	499.9	23.3	4.7	493	399 - 600
Siemens Healthcare LDI												
Siemens Dimension	4	196.5	6.1	3.1	197	157 - 236	4	456.8	20.8	4.5	460	365 - 549

Lactate Dehydrogenase (IU/L)

	<u>Specimen CH-13</u>						<u>Specimen CH-14</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	49	596.8	70.4	11.8	627	477 - 717	49	264.1	31.9	12.1	277	211 - 317
All Alfa Wassermann Reagents	4	438.5	14.0	3.2	444	350 - 527	4	197.3	7.0	3.5	199	157 - 237
All Horiba Pentra Reagents	6	655.3	27.8	4.2	662	524 - 787	6	288.5	17.4	6.0	291	230 - 347
All Roche Reagents	18	635.4	14.1	2.2	638	508 - 763	18	283.4	7.3	2.6	284	226 - 341
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	4	438.5	14.0	3.2	444	350 - 527	4	197.3	7.0	3.5	199	157 - 237
Beckman AU												
Beckman AU systems	11	528.9	19.7	3.7	535	423 - 635	11	231.0	9.6	4.1	235	184 - 278
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	6	655.3	27.8	4.2	662	524 - 787	6	288.5	17.4	6.0	291	230 - 347
Roche cobas c 501												
Roche cobas 6000 / c 501	7	635.1	14.0	2.2	636	508 - 763	7	279.3	5.8	2.1	281	223 - 336
Roche Integra												
Roche Integra	12	643.3	30.5	4.7	639	514 - 772	12	289.6	13.9	4.8	287	231 - 348
Siemens Healthcare LDI												
Siemens Dimension	4	603.0	10.7	1.8	603	482 - 724	4	267.8	7.3	2.7	267	214 - 322

Lactate Dehydrogenase (IU/L)

Specimen CH-15

All Method	48	571.0	67.9	11.9	596	456 - 686
All Alfa Wassermann Reagents	4	419.3	23.7	5.6	415	335 - 504
All Horiba Pentra Reagents	6	622.8	32.7	5.2	635	498 - 748
All Roche Reagents	18	608.9	14.4	2.4	612	487 - 731
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	4	419.3	23.7	5.6	415	335 - 504
Beckman AU						
Beckman AU systems	11	512.5	33.1	6.5	513	409 - 615
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	6	622.8	32.7	5.2	635	498 - 748
Roche cobas c 501						
Roche cobas 6000 / c 501	7	605.3	13.4	2.2	608	484 - 727
Roche Integra						
Roche Integra	12	618.3	28.4	4.6	615	494 - 742
Siemens Healthcare LDI						
Siemens Dimension	4	572.8	21.0	3.7	577	458 - 688

Alpha-fetoprotein (AFP) (ng/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	38.38	2.16	5.6	38.9	31.8 - 44.9	5	188.50	6.67	3.5	190.8	168.4 - 208.6
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	265.30	21.73	8.2	272.2	200.1 - 330.5	5	75.13	6.00	8.0	76.8	57.1 - 93.2
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	250.85	21.70	8.6	259.3	185.7 - 316.0						

Cortisol (µg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	8.19	1.67	20.4	7.9	6.1 - 10.3	15	20.29	3.18	15.7	19.4	15.2 - 25.4
Beckman ACCESS / 2 / Dxl	7	7.99	0.93	11.7	7.9	5.9 - 10.0	7	19.99	2.27	11.3	20.0	14.9 - 25.0
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	27.11	3.88	14.3	26.7	20.3 - 33.9	14	10.71	1.09	10.2	10.4	8.0 - 13.4
Beckman ACCESS / 2 / Dxl	7	26.74	2.73	10.2	27.3	20.0 - 33.5	7	10.76	1.15	10.7	10.4	8.0 - 13.5
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	15	25.75	3.63	14.1	25.5	19.3 - 32.2						
Beckman ACCESS / 2 / Dxl	7	25.40	2.91	11.4	25.7	19.0 - 31.8						

T₃ Uptake (percent)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	48.75	3.69	7.6	49.2	37.6 - 59.9	11	46.10	3.13	6.8	45.0	36.7 - 55.5
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	44.68	3.28	7.3	43.8	34.8 - 54.6	11	47.50	2.92	6.1	48.4	38.7 - 56.3
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	44.38	2.01	4.5	43.7	38.3 - 50.5						

Triiodothyronine (ng/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	0.91	0.19	20.8	1.0	0.3 - 1.5	21	1.38	0.25	18.1	1.5	0.6 - 2.2
All TOSOH Instruments	7	3.71	0.39	10.6	3.6	2.5 - 4.9	7	5.57	0.48	8.5	5.5	4.1 - 7.0
Beckman ACCESS / 2 / Dxl	13	0.91	0.09	9.5	0.9	0.6 - 1.2	13	1.45	0.16	10.8	1.4	0.9 - 2.0
TOSOH ST AIA PACK	6	3.68	0.42	11.4	3.6	2.4 - 5.0	6	5.58	0.52	9.3	5.6	4.0 - 7.2
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	1.65	0.29	17.6	1.8	0.7 - 2.6	21	1.08	0.22	20.0	1.1	0.4 - 1.8
All TOSOH Instruments	7	6.20	0.39	6.3	6.4	5.0 - 7.4	7	4.30	0.32	7.5	4.3	3.3 - 5.3
Beckman ACCESS / 2 / Dxl	13	1.75	0.16	9.2	1.7	1.2 - 2.3	12	1.03	0.08	7.4	1.0	0.7 - 1.3
TOSOH ST AIA PACK	6	6.17	0.42	6.8	6.4	4.9 - 7.5	6	4.30	0.35	8.2	4.3	3.2 - 5.4
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	21	1.57	0.33	21.3	1.8	0.5 - 2.6						
All TOSOH Instruments	7	6.09	0.29	4.7	6.1	5.2 - 7.0						
Beckman ACCESS / 2 / Dxl	13	1.65	0.27	16.6	1.7	0.8 - 2.5						
TOSOH ST AIA PACK	6	6.08	0.31	5.1	6.2	5.1 - 7.1						

Free T₃ (pg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	31	2.97	0.36	12.0	3.0	1.8 - 4.1	30	4.18	0.61	14.7	4.1	2.3 - 6.1
All TOSOH Instruments	6	4.40	0.20	4.5	4.4	3.8 - 5.0	6	8.07	0.25	3.1	8.1	7.3 - 8.9
Beckman ACCESS / 2 / Dxl	16	2.76	0.20	7.1	2.8	2.1 - 3.4	15	3.81	0.19	5.1	3.8	3.2 - 4.4
TOSOH ST AIA PACK	5	4.36	0.19	4.5	4.3	3.7 - 5.0	5	8.04	0.27	3.4	8.0	7.2 - 8.9
Specimen CH-13						Specimen CH-14						
All Method	31	4.65	0.66	14.2	4.6	2.6 - 6.7	30	3.30	0.37	11.2	3.4	2.1 - 4.5
All TOSOH Instruments	6	9.60	0.40	4.2	9.6	8.4 - 10.8	6	5.55	0.10	1.9	5.6	5.2 - 5.9
Beckman ACCESS / 2 / Dxl	16	4.25	0.21	5.0	4.2	3.6 - 4.9	16	3.16	0.18	5.8	3.2	2.6 - 3.8
TOSOH ST AIA PACK	5	9.60	0.45	4.7	9.6	8.2 - 11.0	5	5.56	0.11	2.1	5.6	5.2 - 6.0
Specimen CH-15												
All Method	31	4.59	0.70	15.2	4.5	2.4 - 6.7						
All TOSOH Instruments	6	9.20	0.23	2.5	9.3	8.5 - 9.9						
Beckman ACCESS / 2 / Dxl	16	4.15	0.23	5.4	4.2	3.4 - 4.9						
TOSOH ST AIA PACK	5	9.22	0.25	2.7	9.4	8.4 - 10.0						

Thyroxine (µg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	4.12	0.46	11.1	4.1	3.1 - 5.2	14	8.99	0.57	6.3	9.1	7.1 - 10.8
All TOSOH Instruments	5	4.20	0.28	6.7	4.0	3.2 - 5.2	5	9.04	0.18	2.0	9.0	7.2 - 10.9
Beckman ACCESS / 2 / Dxl	8	4.21	0.20	4.8	4.3	3.2 - 5.3	8	9.48	0.57	6.0	9.5	7.5 - 11.4
	Specimen CH-13						Specimen CH-14					
All Method	15	11.82	0.86	7.3	11.7	9.4 - 14.2	15	5.27	0.37	7.0	5.5	4.2 - 6.4
All TOSOH Instruments	6	12.13	0.77	6.3	12.0	9.7 - 14.6	6	5.30	0.34	6.4	5.2	4.2 - 6.4
Beckman ACCESS / 2 / Dxl	8	11.83	0.42	3.6	11.8	9.4 - 14.2	8	5.90	0.34	5.7	6.0	4.7 - 7.1
	Specimen CH-15											
All Method	15	11.01	0.83	7.6	11.1	8.8 - 13.3						
All TOSOH Instruments	6	10.83	0.60	5.6	10.9	8.6 - 13.0						
Beckman ACCESS / 2 / Dxl	8	11.58	0.61	5.3	11.6	9.2 - 13.9						

Free Thyroxine (ng/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	111	1.36	0.21	15.5	1.3	0.7 - 2.0	112	2.56	0.51	19.8	2.3	1.0 - 4.1
All TOSOH Instruments	20	1.66	0.12	7.2	1.7	1.2 - 2.1	20	3.23	0.24	7.6	3.3	2.4 - 4.0
Abbott Architect	10	1.07	0.04	4.0	1.1	0.9 - 1.3	11	2.26	0.13	5.6	2.3	1.8 - 2.7
Beckman ACCESS / 2 / Dxl	44	1.24	0.06	5.0	1.2	1.0 - 1.5	44	2.10	0.11	5.1	2.1	1.7 - 2.5
Siemens Dimension	17	1.44	0.14	9.5	1.5	1.0 - 1.9	17	3.06	0.18	6.0	3.1	2.5 - 3.7
TOSOH ST AIA PACK	15	1.69	0.11	6.3	1.7	1.3 - 2.1	15	3.27	0.22	6.8	3.3	2.5 - 4.0
	Specimen CH-13						Specimen CH-14					
All Method	113	3.08	0.69	22.4	2.8	1.0 - 5.2	112	1.70	0.30	17.4	1.6	0.8 - 2.6
All TOSOH Instruments	20	3.88	0.30	7.7	3.9	2.9 - 4.8	20	2.09	0.15	7.2	2.1	1.6 - 2.6
Beckman ACCESS / 2 / Dxl	11	2.81	0.18	6.5	2.8	2.2 - 3.4	11	1.35	0.05	4.0	1.4	1.1 - 1.6
Siemens Dimension	44	2.46	0.12	4.9	2.5	2.0 - 2.9	43	1.48	0.08	5.1	1.5	1.2 - 1.8
TOSOH AIA PACK	17	3.81	0.20	5.3	3.9	3.2 - 4.5	17	1.84	0.11	5.8	1.9	1.5 - 2.2
TOSOH ST AIA PACK	15	3.99	0.23	5.8	3.9	3.2 - 4.7	15	2.11	0.15	6.9	2.1	1.6 - 2.6
	Specimen CH-15											
All Method	112	2.98	0.63	21.0	2.7	1.0 - 4.9						
All TOSOH Instruments	20	3.79	0.24	6.5	3.8	3.0 - 4.6						
Beckman ACCESS / 2 / Dxl	11	2.72	0.18	6.6	2.7	2.1 - 3.3						
Siemens Dimension	44	2.43	0.12	5.1	2.4	2.0 - 2.8						
TOSOH AIA PACK	17	3.64	0.17	4.7	3.6	3.1 - 4.2						
TOSOH ST AIA PACK	15	3.85	0.23	5.9	3.8	3.1 - 4.6						

TSH (μU/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	139	1.32	0.16	12.3	1.3	0.8 - 1.9	142	4.40	0.51	11.7	4.4	2.8 - 6.0
All Abbott Instruments	12	1.21	0.08	6.6	1.2	0.9 - 1.5	12	4.15	0.22	5.2	4.2	3.5 - 4.8
All Roche Instruments	10	1.53	0.07	4.4	1.5	1.3 - 1.8	10	4.57	0.19	4.3	4.6	3.9 - 5.2
All TOSOH Instruments	27	1.49	0.11	7.5	1.5	1.1 - 1.9	27	4.90	0.28	5.7	4.9	4.0 - 5.8
Abbott Architect	12	1.21	0.08	6.6	1.2	0.9 - 1.5	12	4.15	0.22	5.2	4.2	3.5 - 4.8
Beckman ACCESS / 2 / Dxl	51	1.27	0.09	7.1	1.2	0.9 - 1.6	49	4.26	0.23	5.4	4.2	3.5 - 5.0
Siemens Dimension	21	1.18	0.12	10.4	1.1	0.8 - 1.6	21	3.86	0.41	10.6	3.8	2.6 - 5.1
TOSOH AIA PACK	10	1.50	0.11	7.0	1.5	1.1 - 1.9	10	5.01	0.27	5.4	5.0	4.1 - 5.9
TOSOH ST AIA PACK	17	1.48	0.12	8.0	1.5	1.1 - 1.9	18	4.78	0.36	7.5	4.8	3.7 - 5.9

<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	141	5.96	0.76	12.7	6.0	3.6 - 8.3	138	2.09	0.26	12.4	2.0	1.3 - 2.9
All Abbott Instruments	12	5.70	0.29	5.1	5.8	4.8 - 6.6	12	1.94	0.10	5.1	2.0	1.6 - 2.3
All Roche Instruments	10	6.00	0.22	3.7	6.0	5.3 - 6.7	10	2.30	0.12	5.0	2.3	1.9 - 2.7
All TOSOH Instruments	27	6.70	0.41	6.1	6.7	5.4 - 8.0	28	2.36	0.18	7.5	2.4	1.8 - 2.9
Abbott Architect	12	5.70	0.29	5.1	5.8	4.8 - 6.6	12	1.94	0.10	5.1	2.0	1.6 - 2.3
Beckman ACCESS / 2 / Dxl	49	5.81	0.47	8.0	5.8	4.4 - 7.3	48	2.00	0.12	6.0	2.0	1.6 - 2.4
Siemens Dimension	21	5.20	0.69	13.3	4.9	3.1 - 7.3	21	1.82	0.21	11.7	1.7	1.1 - 2.5
TOSOH ST AIA PACK	10	6.84	0.33	4.8	6.9	5.8 - 7.9	10	2.40	0.21	8.6	2.4	1.7 - 3.1
	18	6.54	0.55	8.5	6.6	4.8 - 8.3	18	2.34	0.16	6.9	2.4	1.8 - 2.9

<u>Method</u>	Specimen CH-15					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	141	5.72	0.69	12.0	5.7	3.6 - 7.8
All Abbott Instruments	12	5.44	0.28	5.2	5.5	4.5 - 6.3
All Roche Instruments	10	5.77	0.20	3.5	5.8	5.1 - 6.4
All TOSOH Instruments	28	6.32	0.44	7.0	6.4	4.9 - 7.7
Abbott Architect	12	5.44	0.28	5.2	5.5	4.5 - 6.3
Beckman ACCESS / 2 / Dxl	49	5.59	0.37	6.7	5.6	4.4 - 6.8
Siemens Dimension	21	4.97	0.62	12.5	4.7	3.0 - 6.9
TOSOH AIA PACK	10	6.48	0.36	5.6	6.5	5.3 - 7.6
TOSOH ST AIA PACK	18	6.23	0.47	7.5	6.3	4.8 - 7.7

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-11		Specimen HCG-12	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	136	-	136	-
AimStep Combo Pregnancy	1	-	1	-
Alere hCG Combo Cassette	2	-	2	-
Beckman ACCESS / 2 / DxI	1	-	1	-
Beckman Coulter ICON 20 hCG	68	-	68	-
Beckman Coulter ICON 25 hCG	3	-	3	-
BTNX Rapid Response hCG	1	-	1	-
Cardinal Health SP Brand combo	13	-	13	-
CONSULT diagnostics hCG Combo	10	-	10	-
Henry Schein One Step + Combo	5	-	5	-
McKesson hCG Combo Cassette	2	-	2	-
Medline hCG Combo Test Cassette	2	-	2	-
PSS Select hCG Combo	1	-	1	-
Quidel QuickVue + One-Step	7	-	7	-
Quidel QuickVue One-Step Combo	14	-	14	-
Quidel QuickVue Semi-Q hCG	1	-	1	-
Sekisui OSOM hCG Combo Test	2	-	2	-
Stanbio QUPID Plus	3	-	3	-

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-13		Specimen HCG-14	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	136	136	-
AimStep Combo Pregnancy	-	1	1	-
Alere hCG Combo Cassette	-	2	2	-
Beckman ACCESS / 2 / DxI	-	1	1	-
Beckman Coulter ICON 20 hCG	-	68	68	-
Beckman Coulter ICON 25 hCG	-	3	3	-
BTNX Rapid Response hCG	-	1	1	-
Cardinal Health SP Brand combo	-	13	13	-
CONSULT diagnostics hCG Combo	-	10	10	-
Henry Schein One Step + Combo	-	5	5	-
McKesson hCG Combo Cassette	-	2	2	-
Medline hCG Combo Test Cassette	-	2	2	-
PSS Select hCG Combo	-	1	1	-
Quidel QuickVue + One-Step	-	7	7	-
Quidel QuickVue One-Step Combo	-	14	14	-
Quidel QuickVue Semi-Q hCG	-	1	1	-
Sekisui OSOM hCG Combo Test	-	2	2	-
Stanbio QUPID Plus	-	3	3	-

Serum hCG – Qualitative

Specimen HCG-15

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	136
AimStep Combo Pregnancy	-	1
Alere hCG Combo Cassette	-	2
Beckman ACCESS / 2 / DxI	-	1
Beckman Coulter ICON 20 hCG	-	68
Beckman Coulter ICON 25 hCG	-	3
BTNX Rapid Response hCG	-	1
Cardinal Health SP Brand combo	-	13
CONSULT diagnostics hCG Combo	-	10
Henry Schein One Step + Combo	-	5
McKesson hCG Combo Cassette	-	2
Medline hCG Combo Test Cassette	-	2
PSS Select hCG Combo	-	1
Quidel QuickVue + One-Step	-	7
Quidel QuickVue One-Step Combo	-	14
Quidel QuickVue Semi-Q hCG	-	1
Sekisui OSOM hCG Combo Test	-	2
Stanbio QUPID Plus	-	3

Serum hCG – Quantitative (mIU/mL)

<u>Method</u>	Specimen HCG-11						Specimen HCG-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	319.1	158.5	49.7	230	0 - 795	12	2215.1	1088.8	49.2	1985	0 - 5482
<u>Method</u>	Specimen HCG-13						Specimen HCG-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	0.9	0.6	60.3	1	0 - 3	13	2954.8	1544.1	52.3	2357	0 - 7588
<u>Method</u>	Specimen HCG-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	15	0.9	0.6	60.3	1	0 - 3						

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	175	83.9	9.5	11.3	80	75 - 93	175	148.4	5.0	3.4	148	133 - 164
All Alfa Wassermann Reagents	21	84.6	1.8	2.1	85	76 - 94	22	153.7	4.1	2.7	154	138 - 170
All Horiba Pentra Reagents	12	79.0	2.7	3.4	79	71 - 87	12	147.1	3.1	2.1	148	132 - 162
All Roche Reagents	14	78.5	2.4	3.1	79	70 - 87	13	146.0	2.6	1.8	146	131 - 161
Abaxis Piccolo												
All Chemistry Instruments	5	78.4	2.1	2.6	78	70 - 87	5	145.6	2.6	1.8	146	131 - 161
Alere Cholestech LDX												
Alere Cholestech LDX - waived	38	100.0	0.1	0.0	100	90 - 110	39	150.1	5.1	3.4	150	135 - 166
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	84.6	1.8	2.1	85	76 - 94	22	153.7	4.1	2.7	154	138 - 170
Beckman AU												
Beckman AU systems	25	77.3	1.8	2.4	78	69 - 86	25	145.1	3.1	2.1	145	130 - 160
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	79.0	2.7	3.4	79	71 - 87	12	147.1	3.1	2.1	148	132 - 162
Roche cobas c 501												
Roche cobas 6000 / c 501	8	79.1	2.7	3.5	79	71 - 88	8	141.5	14.6	10.3	146	127 - 156
Roche Integra												
Roche Integra	6	77.7	1.8	2.3	79	69 - 86	6	145.3	2.4	1.7	145	130 - 160
Siemens Healthcare												
Siemens Dimension	22	77.2	4.1	5.3	79	69 - 85	22	146.0	4.3	2.9	147	131 - 161
All Chemistry Instruments	25	77.4	3.9	5.0	79	69 - 86	25	146.3	4.3	2.9	147	131 - 161
VITROS												
VITROS 250,350,400 500,700,750,950	17	76.0	2.6	3.4	76	68 - 84	17	146.8	3.9	2.7	147	132 - 162
All Chemistry Instruments	18	75.9	2.5	3.3	76	68 - 84	18	146.9	3.9	2.6	148	132 - 162

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	138	186.4	5.9	3.2	187	167 - 206	137	96.2	4.0	4.1	96	86 - 106
All Alfa Wassermann Reagents	22	191.0	4.4	2.3	191	171 - 211	22	101.5	2.6	2.5	101	91 - 112
All Horiba Pentra Reagents	12	185.8	5.1	2.7	186	167 - 205	12	95.8	2.3	2.4	97	86 - 106
All Roche Reagents	14	184.6	5.0	2.7	185	166 - 204	14	95.7	2.1	2.1	96	86 - 106
Abaxis Piccolo												
All Chemistry Instruments	3	-	-	-	179	159 - 196	3	-	-	-	93	84 - 104
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	190.6	6.2	3.3	194	171 - 210	5	100.0	0.1	0.0	100	90 - 110
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	191.0	4.4	2.3	191	171 - 211	22	101.5	2.6	2.5	101	91 - 112
Beckman AU												
Beckman AU systems	24	183.9	2.8	1.5	184	165 - 203	25	94.3	1.8	1.9	94	84 - 104
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	185.8	5.1	2.7	186	167 - 205	12	95.8	2.3	2.4	97	86 - 106
Roche cobas c 501												
Roche cobas 6000 / c 501	8	186.3	5.6	3.0	186	167 - 205	8	96.1	2.4	2.5	96	86 - 106
Roche Integra												
Roche Integra	6	182.5	3.6	2.0	183	164 - 201	6	95.2	1.5	1.5	96	85 - 105
Siemens Healthcare												
Siemens Dimension	22	182.8	6.0	3.3	184	164 - 202	22	93.4	4.1	4.4	95	84 - 103
All Chemistry Instruments	25	183.3	5.9	3.2	185	164 - 202	25	93.5	3.9	4.1	94	84 - 103
VITROS												
VITROS 250,350,400 500,700,750,950	17	186.7	4.2	2.3	187	168 - 206	17	93.8	2.3	2.4	95	84 - 104
All Chemistry Instruments	18	186.9	4.2	2.2	187	168 - 206	18	93.7	2.2	2.3	95	84 - 104

Cholesterol, Total (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	135	178.2	5.9	3.3	178	160 - 197
All Alfa Wassermann Reagents	21	184.0	4.5	2.4	184	165 - 203
All Horiba Pentra Reagents	12	177.0	4.9	2.8	177	159 - 195
All Roche Reagents	14	177.1	4.9	2.8	177	159 - 195
Abaxis Piccolo						
All Chemistry Instruments	3	-	-	-	171	153 - 188
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	178.0	8.3	4.7	181	160 - 196
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	21	184.0	4.5	2.4	184	165 - 203
Beckman AU						
Beckman AU systems	25	175.7	3.7	2.1	175	158 - 194
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	12	177.0	4.9	2.8	177	159 - 195
Roche cobas c 501						
Roche cobas 6000 / c 501	8	178.9	5.1	2.9	178	160 - 197
Roche Integra						
Roche Integra	6	174.8	3.9	2.2	174	157 - 193
Siemens Healthcare						
Siemens Dimension	22	174.5	5.9	3.4	176	157 - 193
All Chemistry Instruments	25	174.7	5.9	3.4	176	157 - 193
VITROS						
VITROS 250,350,400 500,700,750,950	17	179.7	4.5	2.5	180	161 - 198
All Chemistry Instruments	18	179.9	4.5	2.5	181	161 - 198

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	170	29.7	5.5	18.6	31	20 - 39	167	62.5	6.1	9.7	63	43 - 82
All Dex-Sulfate 50,000 MW Methods	37	21.9	2.9	13.1	22	15 - 29	36	57.4	5.6	9.8	58	40 - 75
All Direct Methods	110	32.5	3.2	9.9	33	22 - 43	112	63.6	5.6	8.9	63	44 - 83
Abaxis Piccolo												
All Chemistry Instruments	5	21.8	2.7	12.3	23	15 - 29	5	55.2	4.9	8.8	55	38 - 72
Alere Cholestech LDX												
Alere Cholestech LDX - waived	37	21.9	2.9	13.1	22	15 - 29	36	57.4	5.6	9.8	58	40 - 75
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	21	35.6	1.9	5.4	36	24 - 47	21	64.3	3.5	5.5	63	45 - 84
Beckman AU Direct HDL / LDL												
Beckman AU systems	23	30.9	1.5	5.0	31	21 - 41	23	61.0	2.7	4.5	62	42 - 80
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	28.5	2.6	9.3	29	19 - 38	12	55.3	5.5	10.0	56	38 - 72
Roche HDL Direct												
Roche cobas 6000 / c 501	8	32.4	2.0	6.2	32	22 - 43	8	69.4	3.8	5.5	69	48 - 91
Roche Integra	5	33.0	0.7	2.1	33	23 - 43	5	71.2	1.1	1.5	71	49 - 93
All Chemistry Instruments	13	32.6	1.6	4.9	33	22 - 43	13	70.1	3.1	4.5	70	49 - 92
Siemens Automated HDL												
Siemens Dimension	21	34.3	1.0	3.0	34	24 - 45	21	67.6	2.2	3.2	67	47 - 88
All Chemistry Instruments	23	34.6	1.3	3.7	35	24 - 45	23	67.7	2.3	3.4	67	47 - 89
VITROS												
VITROS 250,350,400 500,700,750,950	5	28.8	1.1	3.8	28	20 - 38	5	65.4	1.5	2.3	65	45 - 86
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	12	29.6	2.4	8.0	30	20 - 39	12	65.8	4.1	6.2	65	46 - 86
All Chemistry Instruments	13	29.5	2.3	7.6	29	20 - 39	13	65.7	3.9	6.0	65	45 - 86

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	133	83.1	7.4	9.0	82	58 - 108	132	39.5	4.0	10.1	40	27 - 52
All Dex-Sulfate 50,000 MW Methods	5	75.6	29.9	39.6	85	52 - 99	5	27.0	2.1	7.9	27	18 - 36
All Direct Methods	110	81.6	6.7	8.2	80	57 - 107	108	40.2	3.4	8.5	40	28 - 53
Abaxis Piccolo												
All Chemistry Instruments	3	-	-	-	83	58 - 108	3	-	-	-	30	21 - 40
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	75.6	29.9	39.6	85	52 - 99	5	27.0	2.1	7.9	27	18 - 36
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	21	80.2	4.5	5.6	79	56 - 105	21	42.7	2.5	5.8	43	29 - 56
Beckman AU Direct HDL / LDL												
Beckman AU systems	23	77.8	2.7	3.5	79	54 - 102	23	38.0	1.5	4.0	39	26 - 50
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	71.7	7.9	11.0	74	50 - 94	12	35.2	3.4	9.6	36	24 - 46
Roche HDL Direct												
Roche cobas 6000 / c 501	8	91.0	3.9	4.2	91	63 - 119	8	41.8	1.8	4.2	42	29 - 55
Roche Integra	5	91.6	1.5	1.7	91	64 - 120	5	42.2	0.4	1.1	42	29 - 55
All Chemistry Instruments	13	91.2	3.1	3.4	91	63 - 119	13	41.9	1.4	3.3	42	29 - 55
Siemens Automated HDL												
Siemens Dimension	21	85.5	2.5	2.9	85	59 - 112	21	42.5	1.5	3.5	42	29 - 56
All Chemistry Instruments	23	85.9	2.6	3.0	85	60 - 112	23	42.6	1.5	3.6	43	29 - 56
VITROS												
VITROS 250,350,400 500,700,750,950	5	91.0	3.1	3.4	90	63 - 119	5	38.4	1.1	3.0	38	26 - 50
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	12	90.4	6.3	7.0	90	63 - 118	12	38.3	2.6	6.8	38	26 - 50
All Chemistry Instruments	13	90.5	6.1	6.7	91	63 - 118	13	38.2	2.5	6.6	38	26 - 50

Cholesterol, HDL (mg/dL)

Specimen CH-15

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	134	79.2	7.1	9.0	79	55 - 103
All Dex-Sulfate 50,000 MW Methods	5	73.4	7.1	9.7	73	51 - 96
All Direct Methods	110	78.0	6.5	8.4	77	54 - 102
Abaxis Piccolo						
All Chemistry Instruments	3	-	-	-	75	50 - 94
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	73.4	7.1	9.7	73	51 - 96
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	21	76.9	5.1	6.6	75	53 - 100
Beckman AU Direct HDL / LDL						
Beckman AU systems	23	74.9	2.5	3.3	75	52 - 98
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	12	68.6	6.3	9.1	70	48 - 90
Roche HDL Direct						
Roche cobas 6000 / c 501	8	86.3	3.9	4.5	85	60 - 113
Roche Integra	5	87.4	3.2	3.7	87	61 - 114
All Chemistry Instruments	13	86.7	3.5	4.1	85	60 - 113
Siemens Automated HDL						
Siemens Dimension	21	82.1	2.4	2.9	82	57 - 107
All Chemistry Instruments	23	82.5	2.5	3.1	82	57 - 108
VITROS						
VITROS 250,350,400 500,700,750,950	5	87.0	3.1	3.5	87	60 - 114
VITROS dHDL Slide						
VITROS 250,350,400 500,700,750,950	12	87.5	4.8	5.5	88	61 - 114
All Chemistry Instruments	13	87.4	4.6	5.3	87	61 - 114

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	172	103.7	6.5	6.3	104	77 - 130	166	173.7	9.8	5.6	173	130 - 218
All Alfa Wassermann Reagents	21	109.5	3.1	2.8	110	82 - 137	21	179.0	4.6	2.6	179	134 - 224
All Horiba Pentra Reagents	12	103.8	4.3	4.2	103	77 - 130	12	172.7	7.2	4.2	172	129 - 216
All Roche Reagents	15	104.9	2.1	2.0	105	78 - 132	14	172.6	3.3	1.9	173	129 - 216
Abaxis Piccolo												
All Chemistry Instruments	5	104.8	1.1	1.0	104	78 - 131	5	180.0	1.2	0.7	180	135 - 225
Alere Cholestech LDX												
Alere Cholestech LDX - waived	36	101.3	3.7	3.7	102	75 - 127	36	169.4	6.7	3.9	172	127 - 212
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	109.5	3.1	2.8	110	82 - 137	21	179.0	4.6	2.6	179	134 - 224
Beckman AU												
Beckman AU systems	25	103.2	2.3	2.2	104	77 - 130	25	174.9	4.4	2.5	175	131 - 219
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	103.8	4.3	4.2	103	77 - 130	12	172.7	7.2	4.2	172	129 - 216
Roche cobas c 501												
Roche cobas 6000 / c 501	8	105.0	2.9	2.8	106	78 - 132	8	166.9	13.3	8.0	172	125 - 209
Roche Integra												
Roche Integra	6	104.8	0.8	0.7	105	78 - 132	6	173.8	3.1	1.8	175	130 - 218
Siemens Healthcare												
Siemens Dimension	21	94.0	1.9	2.0	94	70 - 118	22	164.9	3.1	1.9	165	123 - 207
All Chemistry Instruments	24	95.4	4.3	4.5	94	71 - 120	23	165.4	3.8	2.3	165	124 - 207
VITROS												
VITROS 250,350,400 500,700,750,950	17	113.6	4.8	4.3	114	85 - 143	17	198.9	7.7	3.9	198	149 - 249
All Chemistry Instruments	18	113.7	4.7	4.1	114	85 - 143	18	198.9	7.5	3.8	198	149 - 249

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	136	214.7	15.3	7.1	212	161 - 269	137	121.5	8.1	6.6	122	91 - 152
All Alfa Wassermann Reagents	21	216.9	5.4	2.5	218	162 - 272	21	126.2	3.7	2.9	126	94 - 158
All Horiba Pentra Reagents	12	208.3	10.2	4.9	204	156 - 261	12	121.5	6.3	5.2	120	91 - 152
All Roche Reagents	15	206.9	3.6	1.7	208	155 - 259	15	122.5	2.3	1.8	123	91 - 154
Abaxis Piccolo												
All Chemistry Instruments	3	-	-	-	222	167 - 280	3	-	-	-	123	92 - 154
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	209.6	9.7	4.6	215	157 - 262	5	116.8	6.3	5.4	118	87 - 146
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	21	216.9	5.4	2.5	218	162 - 272	21	126.2	3.7	2.9	126	94 - 158
Beckman AU												
Beckman AU systems	25	214.0	5.1	2.4	214	160 - 268	25	120.3	2.7	2.3	121	90 - 151
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	12	208.3	10.2	4.9	204	156 - 261	12	121.5	6.3	5.2	120	91 - 152
Roche cobas c 501												
Roche cobas 6000 / c 501	8	207.0	4.7	2.3	208	155 - 259	8	122.0	2.9	2.4	122	91 - 153
Roche Integra												
Roche Integra	6	206.5	2.0	1.0	207	154 - 259	6	123.0	1.4	1.1	123	92 - 154
Siemens Healthcare												
Siemens Dimension	22	204.5	3.7	1.8	204	153 - 256	22	111.3	1.7	1.5	111	83 - 140
All Chemistry Instruments	24	206.1	6.4	3.1	205	154 - 258	22	111.3	1.7	1.5	111	83 - 140
VITROS												
VITROS 250,350,400 500,700,750,950	17	249.1	8.0	3.2	250	186 - 312	17	135.0	5.7	4.2	134	101 - 169
All Chemistry Instruments	18	248.8	7.8	3.1	249	186 - 311	18	134.9	5.5	4.1	134	101 - 169

Triglycerides (mg/dL)**Specimen CH-15**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	136	207.3	14.3	6.9	204	155 - 260
All Alfa Wassermann Reagents	21	209.4	7.4	3.5	209	157 - 262
All Horiba Pentra Reagents	12	201.3	7.4	3.7	200	150 - 252
All Roche Reagents	15	200.9	4.4	2.2	201	150 - 252
Abaxis Piccolo						
All Chemistry Instruments	3	-	-	-	215	161 - 269
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	199.4	8.4	4.2	204	149 - 250
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	21	209.4	7.4	3.5	209	157 - 262
Beckman AU						
Beckman AU systems	25	206.5	4.4	2.2	207	154 - 259
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	12	201.3	7.4	3.7	200	150 - 252
Roche cobas c 501						
Roche cobas 6000 / c 501	8	200.6	5.4	2.7	201	150 - 251
Roche Integra						
Roche Integra	6	201.0	3.3	1.7	202	150 - 252
Siemens Healthcare						
Siemens Dimension	22	196.8	3.4	1.7	197	147 - 246
All Chemistry Instruments	24	198.1	5.6	2.8	197	148 - 248
VITROS						
VITROS 250,350,400 500,700,750,950	17	239.1	8.7	3.6	238	179 - 299
All Chemistry Instruments	18	239.1	8.4	3.5	239	179 - 299

Acetaminophen (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	29.15	0.07	0.2	29.2	21.8 - 36.5	5	76.10	1.41	1.9	76.1	57.0 - 95.2
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	102.70	0.28	0.3	102.7	77.0 - 128.4	5	40.05	0.07	0.2	40.1	30.0 - 50.1
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	98.00	1.41	1.4	98.0	73.5 - 122.5						

Carbamazepine (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	4.10	0.01	0.0	4.1	3.0 - 5.2	5	9.05	0.64	7.0	9.1	6.7 - 11.4
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	12.30	0.71	5.7	12.3	9.2 - 15.4	5	5.45	0.07	1.3	5.5	4.0 - 6.9
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	11.40	0.99	8.7	11.4	8.5 - 14.3						

Digoxin (ng/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	0.68	0.10	14.2	0.7	0.4 - 0.9	7	1.43	0.24	16.6	1.5	1.1 - 1.8
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	1.93	0.22	11.5	2.0	1.5 - 2.4	7	0.88	0.15	17.1	0.9	0.6 - 1.1
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	7	1.83	0.24	12.9	1.9	1.4 - 2.2						

Gentamicin (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.95	0.07	3.6	2.0	0.9 - 3.0	5	5.90	0.01	0.0	5.9	4.4 - 7.4
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	8.35	0.21	2.5	8.4	6.2 - 10.5	5	2.95	0.07	2.4	3.0	2.2 - 3.7
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	8.10	0.28	3.5	8.1	6.0 - 10.2						

Lithium (mmol/L)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.50	0.01	0.0	0.5	0.2 - 0.8	5	1.45	0.07	4.9	1.5	1.1 - 1.8
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	2.05	0.21	10.3	2.1	1.6 - 2.5	5	0.80	0.01	0.0	0.8	0.5 - 1.1
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	2.00	0.01	0.0	2.0	1.6 - 2.4						

Phenobarbital (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	9.2	Not graded	1	-	-	-	25.2	Not graded
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	32.7	Not graded	1	-	-	-	13.8	Not graded
<u>Method</u>	Specimen CH-15											
All Method	1	-	-	-	32.4	Not graded						

Phenytoin (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	8.88	0.79	8.9	9.0	6.6 - 11.1	7	18.58	1.41	7.6	18.9	13.9 - 23.3
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	24.98	0.51	2.1	25.0	18.7 - 31.3	7	11.43	0.13	1.1	11.4	8.5 - 14.3
<u>Method</u>	Specimen CH-15											
All Method	7	23.55	0.70	3.0	23.6	17.6 - 29.5						

Salicylate (mg/dL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	9.6	Not graded	1	-	-	-	19.0	Not graded
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	24.0	Not graded	1	-	-	-	12.4	Not graded
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	1	-	-	-	23.6	Not graded						

Theophylline (µg/mL)

<u>Method</u>	Specimen CH-11						Specimen CH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	11.8	Not graded	1	-	-	-	23.4	Not graded
<u>Method</u>	Specimen CH-13						Specimen CH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	31.5	Not graded	1	-	-	-	14.9	Not graded
<u>Method</u>	Specimen CH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	1	-	-	-	30.4	Not graded						

Valproic Acid (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	7	40.08	3.22	8.0	39.5	30.0 - 50.1	7	75.23	2.12	2.8	74.9	56.4 - 94.1	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-13				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	7	101.05	6.74	6.7	99.5	75.7 - 126.4	7	51.08	3.40	6.7	50.0	38.3 - 63.9	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-15				<u>Range</u>						
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>		<u>CV</u>	<u>Median</u>	<u>Range</u>			
All Method	7	97.35	6.98	7.2	98.0	73.0 - 121.7							

Vancomycin (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-11				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-12			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	6	8.00	0.26	3.3	7.9	6.0 - 10.0	6	29.47	1.99	6.7	30.3	22.1 - 36.9	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-13				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-14			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	3	43.90	3.70	8.4	45.3	32.9 - 54.9	6	13.87	1.56	11.3	14.1	10.4 - 17.4	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-15				<u>Range</u>						
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>		<u>CV</u>	<u>Median</u>	<u>Range</u>			
All Method	6	41.53	2.70	6.5	42.1	31.1 - 52.0							

Apolipoprotein A1 (mg/dL)

<u>Method</u>	Specimen LP-5						Specimen LP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	272	Not graded	1	-	-	-	93	Not graded

Apolipoprotein B (mg/dL)

<u>Method</u>	Specimen LP-5						Specimen LP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	148.0	17.0	11.5	148	103 - 193	5	43.5	7.8	17.9	44	30 - 57

Neonatal Bilirubin, Total (mg/dL)

<u>Method</u>	Specimen NB-11						Specimen NB-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	27	14.52	0.84	5.8	14.8	11.6 - 17.5	28	10.03	0.70	6.9	10.3	8.0 - 12.1
No Reagent Required												
Bilirubinometer / Unistat	17	14.80	0.60	4.1	15.0	11.8 - 17.8	18	10.29	0.52	5.0	10.4	8.2 - 12.4
All Chemistry Instruments	21	14.81	0.61	4.1	14.8	11.8 - 17.8	22	10.29	0.51	4.9	10.4	8.2 - 12.4
<u>Method</u>	Specimen NB-13						Specimen NB-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	28	5.72	0.45	7.9	5.8	4.5 - 6.9	26	0.04	0.08	191.1	0.0	0.0 - 0.5
No Reagent Required												
Bilirubinometer / Unistat	18	5.63	0.44	7.8	5.7	4.5 - 6.8	18	0.00	0.01	0.0	0.0	0.0 - 0.4
All Chemistry Instruments	22	5.75	0.48	8.4	5.8	4.5 - 6.9	20	0.03	0.08	314.6	0.0	0.0 - 0.5
<u>Method</u>	Specimen NB-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	28	5.70	0.47	8.2	5.8	4.5 - 6.9						
No Reagent Required												
Bilirubinometer / Unistat	18	5.65	0.50	8.9	5.7	4.5 - 6.8						
All Chemistry Instruments	22	5.71	0.51	9.0	5.8	4.5 - 6.9						

Bilirubin, Direct (mg/dL)

<u>Method</u>	Specimen NB-11						Specimen NB-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	5.26	0.39	7.5	5.2	4.4 - 6.1	10	4.67	0.34	7.2	4.7	3.9 - 5.4
<u>Method</u>	Specimen NB-13						Specimen NB-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	1.53	0.20	13.1	1.6	1.1 - 2.0	10	0.14	0.15	107.5	0.1	0.0 - 0.5
<u>Method</u>	Specimen NB-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	1.53	0.18	11.5	1.6	1.1 - 1.9						

Blood Gases – pH

<u>Method</u>	Specimen BG-11						Specimen BG-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	7.490	0.001	0.0	7.49	7.45 - 7.53	3	7.477	0.012	0.2	7.47	7.43 - 7.52
<u>Method</u>	Specimen BG-13						Specimen BG-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	7.183	0.006	0.1	7.18	7.14 - 7.23	3	7.490	0.001	0.0	7.49	7.45 - 7.53
<u>Method</u>	Specimen BG-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	3	7.487	0.006	0.1	7.49	7.44 - 7.53						

Blood Gases - pCO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-11				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-12			<u>Range</u>
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>		
All Method	3	27.17	0.55	2.0	27.2	22.1 - 32.2	3	19.13	0.61	3.2	19.0	14.1 - 24.2	
			Specimen BG-13							Specimen BG-14			
All Method	3	55.13	1.50	2.7	55.9	50.1 - 60.2	3	23.43	0.50	2.1	23.5	18.4 - 28.5	
			Specimen BG-15										
All Method	3	27.77	0.60	2.2	27.7	22.7 - 32.8							

Blood Gases - pO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-11				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen BG-12			<u>Range</u>
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>		
All Method	3	120.00	4.36	3.6	118.0	106.9 - 133.1	3	160.33	5.86	3.7	158.0	142.7 - 178.0	
			Specimen BG-13							Specimen BG-14			
All Method	3	89.33	13.01	14.6	90.0	50.2 - 128.4	3	141.67	2.31	1.6	143.0	134.7 - 148.6	
			Specimen BG-15										
All Method	3	116.33	7.51	6.5	116.0	93.8 - 138.9							

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: 0.86 mmol/L, 0.76 mmol/L, 2.1 mmol/L, 1.2 mmol/L, and 0.86 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: 116 mmol/L, 103 mmol/L, 76 mmol/L, 84 mmol/L, and 116 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: 6.6 mmol/L, 6.1 mmol/L, 2.8 mmol/L, 4.3 mmol/L, and 6.6 mmol/L, respectively.

Blood Gases – Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-1 through BG-15 are: 169 mmol/L, 145 mmol/L, 125 mmol/L, 147 mmol/L, and 169 mmol/L, respectively.

Blood Gases – Lactate (mmol/L)

<u>Method</u>	Specimen BG-11						Specimen BG-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	1.0	Not graded	4	-	-	-	1.2	Not graded
<u>Method</u>	Specimen BG-13						Specimen BG-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	4	-	-	-	4.8	Not graded	4	-	-	-	1.4	Not graded
<u>Method</u>	Specimen BG-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	4	-	-	-	1.0	Not graded						

Afinion Glycohemoglobin (percent)

<u>Method</u>	Specimen AFN-5						Specimen AFN-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	79	6.18	0.15	2.4	6.2	5.8 - 6.5	-	-	-	-	-	-
All Alere Afinion Analyzers	79	6.18	0.15	2.4	6.2	5.8 - 6.5	-	-	-	-	-	-
Alere Afinion 2	13	6.20	0.16	2.6	6.2	5.8 - 6.6	-	-	-	-	-	-
Alere Afinion AS100	66	6.18	0.15	2.4	6.2	5.8 - 6.5	-	-	-	-	-	-

Sample AFN-6 was issued an exclusion due to manufacturing issue. There is no data for this sample.

Glycohemoglobin (percent)

<u>Method</u>	Specimen GH-5						Specimen GH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	105	10.62	0.40	3.8	10.7	10.0 - 11.2	108	7.39	0.28	3.8	7.4	7.0 - 7.8
All Bio-Rad Methods	5	11.04	0.11	1.0	11.0	10.4 - 11.6	5	7.84	0.17	2.1	7.8	7.4 - 8.3
All Enzymatic A1c Methods	5	9.88	0.72	7.3	10.2	9.3 - 10.4	5	6.82	0.15	2.2	6.8	6.4 - 7.2
All Hemoglobin A1c Methods	102	10.65	0.42	3.9	10.7	10.1 - 11.2	103	7.42	0.26	3.5	7.4	7.0 - 7.8
All Roche Methods	7	10.71	0.30	2.8	10.7	10.1 - 11.3	7	7.16	0.13	1.8	7.1	6.7 - 7.6
All TOSOH Methods	15	10.11	0.29	2.8	10.1	9.6 - 10.7	15	7.22	0.22	3.1	7.2	6.8 - 7.6
Beckman AU A1c	9	10.66	0.27	2.5	10.6	10.1 - 11.2	9	7.28	0.22	3.1	7.2	6.9 - 7.7
Bio-Rad D-10 HbA1C	5	11.04	0.11	1.0	11.0	10.4 - 11.6	5	7.84	0.17	2.1	7.8	7.4 - 8.3
Roche Integra A1C	4	10.68	0.41	3.9	10.7	10.1 - 11.3	4	7.10	0.08	1.1	7.1	6.7 - 7.5
Siemens DCA Vantage	44	10.80	0.41	3.8	10.8	10.2 - 11.4	45	7.52	0.22	2.9	7.5	7.1 - 7.9
Siemens Dimension HA1C	5	10.44	0.31	3.0	10.5	9.9 - 11.0	5	7.26	0.15	2.1	7.2	6.8 - 7.7
Siemens Dimension HB1C	10	10.63	0.19	1.8	10.7	10.0 - 11.2	10	7.43	0.13	1.7	7.4	7.0 - 7.9
TOSOH G8	15	10.11	0.29	2.8	10.1	9.6 - 10.7	15	7.22	0.22	3.1	7.2	6.8 - 7.6

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-11						Specimen WBG-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	270	201.5	25.1	12.5	208	161 - 242	272	114.2	21.0	18.3	116	91 - 138
All Abbott Methods	34	187.3	13.7	7.3	189	149 - 225	34	96.2	8.4	8.7	95	76 - 116
All Arkray Methods	16	229.3	28.5	12.4	220	183 - 276	16	132.2	6.2	4.7	131	105 - 159
All Bayer Methods	22	167.1	14.2	8.5	165	133 - 201	22	88.5	7.7	8.7	87	70 - 107
All Hemocue Methods	59	212.2	6.9	3.2	211	169 - 255	60	130.4	7.2	5.5	130	104 - 157
All Lifescan Methods	20	232.5	19.1	8.2	238	185 - 279	20	120.3	8.4	7.0	122	96 - 145
All Roche Methods	25	212.5	5.8	2.7	213	169 - 255	25	116.5	4.3	3.7	117	93 - 140
Abbott FreeStyle Lite/Freedom Lite	7	196.0	6.1	3.1	193	156 - 236	7	105.9	3.0	2.9	106	84 - 128
Abbott FreeStyle Precision Pro	20	184.5	15.5	8.4	184	147 - 222	20	92.9	7.9	8.5	93	74 - 112
Abbott Precision XceedPro	6	186.2	12.0	6.4	190	148 - 224	6	94.7	4.9	5.2	95	75 - 114
Arkray Platinum	16	229.3	28.5	12.4	220	183 - 276	16	132.2	6.2	4.7	131	105 - 159
Bayer Contour	22	167.1	14.2	8.5	165	133 - 201	22	88.5	7.7	8.7	87	70 - 107
HemoCue Glucose 201	58	212.1	6.9	3.2	211	169 - 255	59	130.3	7.2	5.5	130	104 - 157
Home Diagnostics True Balance / TrueTrack	11	440.8	73.7	16.7	473	352 - 529	11	325.4	72.3	22.2	299	260 - 391
Lifescan One Touch Ultra/2/Mini	18	237.6	11.3	4.8	240	190 - 286	18	122.3	6.0	4.9	123	97 - 147
Medline EvenCare G2 / G3	16	208.0	22.2	10.7	211	166 - 250	16	118.4	8.7	7.4	119	94 - 143
NOVA Biomedical StatStrip	23	170.2	15.3	9.0	176	136 - 205	22	92.0	9.5	10.4	95	73 - 111
Quintet / AC	28	214.6	6.4	3.0	216	171 - 258	29	112.9	3.7	3.3	113	90 - 136
Roche Accu-Chek Aviva	5	211.6	4.5	2.1	209	169 - 254	5	114.2	2.2	1.9	113	91 - 138
Roche Accu-Chek Inform II	8	213.9	6.2	2.9	215	171 - 257	8	115.8	5.8	5.0	117	92 - 139
Roche Accu-Chek Performa	12	211.9	6.2	2.9	211	169 - 255	12	117.9	3.6	3.0	119	94 - 142
True Metrix Pro	18	188.1	29.4	15.6	190	150 - 226	16	98.8	3.0	3.0	99	79 - 119

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-13						Specimen WBG-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	333.2	32.0	9.6	354	266 - 400	19	103.1	7.4	7.2	104	82 - 124
All Lifescan Methods	13	352.8	11.5	3.3	354	282 - 424	13	106.2	3.7	3.5	104	84 - 128
All Roche Methods	3	-	-	-	303	241 - 363	3	-	-	-	104	83 - 126
Lifescan One Touch Ultra/2/Mini	13	352.8	11.5	3.3	354	282 - 424	13	106.2	3.7	3.5	104	84 - 128
Medline EvenCare G2 / G3	1	-	-	-	274	266 - 400	1	-	-	-	91	82 - 124
Roche Accu-Chek Inform II	2	-	-	-	304	266 - 400	2	-	-	-	104	82 - 124
Roche Accu-Chek Performa	1	-	-	-	299	266 - 400	1	-	-	-	105	82 - 124
True Metrix Pro	1	-	-	-	274	266 - 400	1	-	-	-	91	82 - 124

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	438.1	32.6	7.4	455	350 - 526
All Lifescan Methods	13	454.6	15.4	3.4	455	363 - 546
All Roche Methods	3	-	-	-	424	334 - 502
Lifescan One Touch Ultra/2/Mini	13	454.6	15.4	3.4	455	363 - 546
Medline EvenCare G2 / G3	1	-	-	-	343	350 - 526
Roche Accu-Chek Inform II	2	-	-	-	424	350 - 526
Roche Accu-Chek Performa	1	-	-	-	407	350 - 526
True Metrix Pro	1	-	-	-	393	350 - 526

C-Peptide (ng/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	12.788	0.873	6.8	13.20	11.04 - 14.54	9	0.500	0.071	14.2	0.50	0.35 - 0.65

Insulin (µU/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	115.07	34.65	30.1	105.1	45.7 - 184.4	10	22.39	8.89	39.7	18.0	4.6 - 40.2
Beckman ACCESS / 2 / Dxl	5	96.40	17.73	18.4	99.3	60.9 - 131.9	5	16.60	3.79	22.8	16.2	9.0 - 24.2

Parathyroid Hormone, Intact (pg/mL)

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	30	258.5	31.5	12.2	256	195 - 322	30	39.8	5.0	12.7	39	29 - 50
All TOSOH Instruments	7	280.4	14.9	5.3	285	250 - 311	7	43.1	2.1	4.9	43	38 - 48
Beckman ACCESS / 2 / Dxl	13	245.5	24.9	10.1	254	195 - 296	13	37.9	5.1	13.4	39	27 - 49
TOSOH ST AIA PACK	5	286.0	10.2	3.6	288	265 - 307	5	43.8	1.0	2.2	44	41 - 46

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

<u>Method</u>	Specimen CIP-5						Specimen CIP-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	95	93.03	16.68	17.9	93.8	59.6 - 126.4	93	18.54	4.44	23.9	17.5	9.6 - 27.5
All Roche Instruments	9	90.30	16.68	18.5	100.0	56.9 - 123.7	9	19.17	3.13	16.3	20.1	12.9 - 25.5
All TOSOH Instruments	16	98.64	4.48	4.5	97.9	89.6 - 107.7	16	23.80	1.68	7.1	24.3	20.4 - 27.2
Abbott Architect	6	76.65	12.35	16.1	80.4	51.9 - 101.4	6	15.27	2.57	16.8	16.1	10.1 - 20.5
Beckman ACCESS / 2 / Dxl	41	92.21	8.40	9.1	90.4	75.4 - 109.1	41	15.71	2.27	14.4	16.0	11.1 - 20.3
Roche cobas e 411	5	91.44	13.47	14.7	100.0	64.4 - 118.4	5	19.42	3.03	15.6	20.4	13.3 - 25.5
Siemens Dimension	5	73.10	2.50	3.4	74.3	68.1 - 78.1	5	17.56	0.90	5.1	17.6	15.7 - 19.4
TOSOH AIA PACK	6	98.70	3.60	3.6	98.4	91.5 - 105.9	6	23.58	1.73	7.3	24.2	20.1 - 27.1
TOSOH ST AIA PACK	10	98.61	5.13	5.2	97.0	88.3 - 108.9	10	23.93	1.73	7.2	24.3	20.4 - 27.4

Bioavailable Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	3	-	-	-	358	Not graded	3	-	-	-	285	Not graded

Free Testosterone (pg/mL)

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	80.15	63.51	79.2	85.3	0.0 - 207.2	5	39.38	45.38	115.3	27.1	0.0 - 130.2

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

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	63.861	4.028	6.3	65.05	51.77 - 75.95	14	45.119	2.037	4.5	45.80	39.00 - 51.23
Beckman ACCESS / 2 / Dxl	10	64.120	2.244	3.5	64.65	57.38 - 70.86	10	44.978	1.975	4.4	44.70	39.05 - 50.91

Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-5						Specimen SHB-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	858.4	95.4	11.1	842	600 - 1116	14	574.3	47.8	8.3	568	402 - 747
Beckman ACCESS / 2 / Dxl	11	826.0	54.8	6.6	836	578 - 1074	11	558.5	30.8	5.5	564	390 - 726

BNP (pg/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	110.00	45.24	41.1	46.8	19.5 - 200.5	18	1364.12	546.45	40.1	502.0	271.2 - 2457.1
Quidel Triage	13	44.31	8.05	18.2	43.2	28.2 - 60.5	13	464.31	80.62	17.4	453.0	303.0 - 625.6
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	705.88	267.44	37.9	314.5	171.0 - 1240.8	5	4421.54	924.37	20.9	2080.0	2572.7 - 6270.3
Quidel Triage	5	215.60	8.76	4.1	217.0	161.7 - 269.5	5	1262.00	73.62	5.8	1270.0	946.5 - 1577.5
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	2836.26	949.97	33.5	1088.0	936.3 - 4736.3						
Quidel Triage	5	708.20	45.11	6.4	733.0	531.1 - 885.3						

CK-MB (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	6.33	1.33	21.1	4.0	2.3 - 10.4	12	28.03	5.63	20.1	19.9	11.1 - 45.0
Quidel Triage	11	2.37	0.48	20.2	2.6	0.9 - 3.9	11	10.32	1.64	15.8	10.8	5.4 - 15.3
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	16.43	2.97	18.1	12.4	7.5 - 25.4	12	98.03	21.66	22.1	64.8	33.0 - 163.1
Quidel Triage	11	6.84	0.75	11.0	6.8	4.5 - 9.1	11	33.95	6.37	18.8	35.3	14.8 - 53.1
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	51.24	11.61	22.7	34.0	16.4 - 86.1						
Quidel Triage	11	19.86	2.62	13.2	20.2	11.9 - 27.8						

D-Dimer (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12						
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	98	296.5	2.1	0.7	142	207 - 386	98	391.5	10.6	2.7	602	274 - 509	
Instrumentation Laboratory (IL) ACL Series	5	296.5	2.1	0.7	297	207 - 386	5	391.5	10.6	2.7	392	274 - 509	
Quidel Triage	93	144.6	23.7	16.4	142	97 - 193	93	608.7	60.4	9.9	602	426 - 792	
	Specimen CK-13						Specimen CK-14						
All Method	93	319.5	13.4	4.2	376	223 - 416	93	817.5	55.9	6.8	1560	572 - 1063	
Instrumentation Laboratory (IL) ACL Series	5	319.5	13.4	4.2	320	223 - 416	5	817.5	55.9	6.8	818	572 - 1063	
Quidel Triage	88	378.4	53.9	14.2	377	264 - 492	88	1584.8	163.2	10.3	1565	1109 - 2061	
	Specimen CK-15												
All Method	93	539.0	32.5	6.0	922	377 - 701							
Instrumentation Laboratory (IL) ACL Series	5	539.0	32.5	6.0	539	377 - 701							
Quidel Triage	88	928.4	78.3	8.4	922	649 - 1207							

Myoglobin (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	38.20	5.19	13.6	40.6	26.7 - 49.7	11	147.37	23.21	15.8	144.2	100.9 - 193.8
Alere Triage	8	43.13	7.17	16.6	40.9	28.7 - 57.5	8	145.88	17.13	11.7	142.5	102.1 - 189.7
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	89.33	13.23	14.8	86.9	62.5 - 116.2	11	471.03	80.74	17.1	402.4	309.5 - 632.6
Alere Triage	8	96.73	18.45	19.1	93.2	59.8 - 133.7	8	355.25	96.36	27.1	320.0	162.5 - 548.0
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	252.67	37.78	15.0	246.9	176.8 - 328.5						
Alere Triage	8	252.63	38.36	15.2	250.0	175.8 - 329.4						

NT-proBNP (pg/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	33.2	15.0	45.2	30	3 - 64	10	765.8	322.5	42.1	806	120 - 1411
Roche cobas e 601/e 602	5	48.5	2.1	4.4	49	36 - 61	5	1073.0	39.6	3.7	1073	804 - 1342
Siemens Dimension NT-proBNP	5	23.0	7.5	32.8	24	7 - 39	5	561.0	223.6	39.9	509	113 - 1009
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	321.3	206.5	64.3	250	0 - 735	9	3251.3	1496.5	46.0	2496	258 - 6245
Roche cobas e 601/e 602	4	-	-	-	554	0 - 735	4	-	-	-	4975	258 - 6245
Siemens Dimension NT-proBNP	5	205.0	63.6	31.0	205	77 - 333	5	2389.5	150.6	6.3	2390	1792 - 2987
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	9	1417.0	702.5	49.6	1093	12 - 2822						
Roche cobas e 601/e 602	4	-	-	-	2223	12 - 2822						
Siemens Dimension NT-proBNP	5	1014.0	111.7	11.0	1014	760 - 1268						

Troponin T (ng/mL)

<u>Method</u>	Specimen CK-11						Specimen CK-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.1810	0.0198	10.9	0.181	0.126 - 0.236	5	0.5975	0.0488	8.2	0.598	0.418 - 0.777
<u>Method</u>	Specimen CK-13						Specimen CK-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.3720	0.0707	19.0	0.372	0.230 - 0.514	5	1.7350	0.2616	15.1	1.735	1.211 - 2.259
<u>Method</u>	Specimen CK-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	1.0000	0.1697	17.0	1.000	0.660 - 1.340						

PSA (ng/mL)

<u>Method</u>	Specimen PS-5						Specimen PS-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	87	18.248	2.437	13.4	17.59	12.77 - 23.73	87	6.386	0.866	13.6	6.25	4.47 - 8.31
All TOSOH Instruments	20	16.111	0.675	4.2	16.14	11.27 - 20.95	20	5.820	0.251	4.3	5.87	4.07 - 7.57
Beckman ACCESS / 2 / Dxl	14	20.629	1.221	5.9	20.97	14.44 - 26.82	14	7.249	0.359	5.0	7.31	5.07 - 9.43
Beckman ACCESS Hybritech PSA	12	19.711	1.553	7.9	20.24	13.79 - 25.63	12	7.005	0.748	10.7	7.35	4.90 - 9.11
Siemens Dimension TPSA	14	17.546	1.207	6.9	17.22	12.28 - 22.81	14	6.091	0.530	8.7	5.95	4.26 - 7.92
TOSOH ST AIA PACK	13	16.197	0.797	4.9	16.32	11.33 - 21.06	13	5.832	0.291	5.0	5.87	4.08 - 7.59

Beta-2 microglobulin

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.920	0.095	4.9	1.92	1.63 - 2.21	5	1.118	0.057	5.1	1.09	0.94 - 1.29

CA 125 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	87.8	16.9	19.2	108	54 - 122	11	48.5	9.4	19.5	60	29 - 68
All TOSOH Instruments	9	125.1	5.6	4.5	125	87 - 163	9	68.7	2.5	3.7	69	48 - 90
Beckman ACCESS / 2 / Dxl	5	77.0	3.7	4.9	76	53 - 101	5	42.2	2.6	6.1	43	29 - 55
TOSOH ST AIA PACK	8	124.9	6.0	4.8	124	87 - 163	8	68.3	2.4	3.5	69	47 - 89

CA 15-3 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	70.8	31.3	44.3	66	8 - 134	10	45.8	22.7	49.7	40	0 - 92
Beckman ACCESS / 2 / Dxl	5	66.4	8.4	12.7	69	46 - 87	5	40.4	4.4	10.9	42	28 - 53

CA 19-9 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	103.8	42.4	40.9	78	18 - 189	9	56.7	21.8	38.5	44	13 - 101

CA 27/29 (U/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	454.4	53.2	11.7	450	318 - 591	8	248.3	25.9	10.4	244	173 - 323
All TOSOH Instruments	8	454.4	53.2	11.7	450	318 - 591	8	248.3	25.9	10.4	244	173 - 323
TOSOH ST AIA PACK	7	454.6	57.5	12.6	447	318 - 591	7	244.9	25.9	10.6	242	171 - 319

CEA (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	24.13	2.69	11.2	26.7	16.8 - 31.4	10	12.23	1.07	8.8	14.1	8.5 - 15.9
All TOSOH Instruments	9	29.12	1.10	3.8	29.5	20.3 - 37.9	9	15.11	0.24	1.6	15.1	10.5 - 19.7
TOSOH ST AIA PACK	8	29.19	1.15	4.0	29.6	20.4 - 38.0	8	15.10	0.25	1.7	15.1	10.5 - 19.7

Free PSA (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	4.324	0.654	15.1	4.50	3.02 - 5.63	7	2.067	0.337	16.3	2.20	1.16 - 2.97

PSA (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	29	3.614	0.663	18.4	3.50	2.52 - 4.70	29	1.742	0.300	17.2	1.70	0.84 - 2.65

Thyroglobulin (ng/mL)

<u>Method</u>	Specimen TM-5						Specimen TM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	29.38	11.66	39.7	35.0	6.0 - 52.7	6	14.40	6.45	44.8	17.3	1.5 - 27.3
Beckman ACCESS / 2 / Dxl	5	35.20	0.46	1.3	35.3	34.2 - 36.2	5	17.60	0.95	5.4	18.1	15.6 - 19.6

CEA (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	28.77	2.81	9.8	30.3	20.1 - 37.4	12	10.83	0.91	8.4	11.6	7.5 - 14.1
All TOSOH Instruments	5	32.20	1.26	3.9	32.4	22.5 - 41.9	5	12.65	0.31	2.5	12.7	8.8 - 16.5
Beckman ACCESS / 2 / Dxl	5	27.98	2.98	10.6	29.2	19.5 - 36.4	5	10.78	1.14	10.5	11.0	7.5 - 14.1

DHEA-S (µg/dL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	397.82	54.21	13.6	376.0	278.4 - 517.2	14	199.08	29.83	15.0	193.8	139.3 - 258.9
Beckman ACCESS / 2 / Dxl	10	388.81	49.85	12.8	367.6	272.1 - 505.5	10	195.88	28.37	14.5	188.4	137.1 - 254.7

Estradiol (pg/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	25	501.6	126.7	25.3	453	248 - 756	25	216.8	55.5	25.6	202	105 - 328
All TOSOH Instruments	5	733.0	23.6	3.2	728	685 - 781	5	317.6	3.4	1.1	316	310 - 325
Beckman ACCESS / 2 / Dxl	14	440.6	23.3	5.3	439	393 - 488	14	199.4	13.2	6.6	201	172 - 226

Ferritin (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	33	177.9	27.8	15.6	147	124 - 232	33	79.6	12.8	16.1	63	55 - 104
All Roche Instruments	8	214.1	4.5	2.1	215	149 - 279	8	94.6	2.4	2.5	95	66 - 124
All TOSOH Instruments	19	134.5	7.7	5.7	133	94 - 175	19	58.2	3.8	6.5	59	40 - 76
Beckman ACCESS / 2 / Dxl	27	144.6	9.3	6.4	146	101 - 188	27	60.7	4.4	7.3	59	42 - 79
Siemens Dimension	10	180.4	6.0	3.3	183	126 - 235	10	82.2	2.1	2.6	83	57 - 107
TOSOH ST AIA PACK	15	135.0	8.0	5.9	133	94 - 176	15	58.0	4.2	7.3	59	40 - 76

Folate (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	23	6.10	2.20	36.1	7.2	4.2 - 8.0	22	2.19	0.51	23.5	2.6	1.1 - 3.2
All Roche Instruments	7	5.33	0.46	8.6	5.5	3.7 - 7.0	7	2.01	0.04	1.9	2.0	1.0 - 3.1
All Siemens Dimension Instruments	7	4.27	0.52	12.1	4.4	2.9 - 5.6	7	1.97	0.23	11.6	2.0	0.9 - 3.0
All TOSOH Instruments	6	4.63	0.38	8.2	4.6	3.2 - 6.1	6	2.07	0.29	14.2	2.0	1.0 - 3.1
Abbott Architect	5	9.30	2.20	23.7	9.6	6.5 - 12.1	5	3.56	1.47	41.4	3.4	2.4 - 4.7
Beckman ACCESS / 2 / Dxl	24	8.49	0.79	9.3	8.8	5.9 - 11.1	24	2.90	0.33	11.3	3.0	1.9 - 4.0
Siemens Dimension	5	4.34	0.58	13.3	4.5	3.0 - 5.7	5	1.98	0.26	13.1	2.0	0.9 - 3.0

FSH (mIU/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	50.17	5.05	10.1	50.0	37.6 - 62.8	27	24.36	2.85	11.7	24.6	18.2 - 30.5
Beckman ACCESS / 2 / Dxl	14	53.27	3.58	6.7	53.4	39.9 - 66.6	14	25.05	2.28	9.1	24.8	18.7 - 31.4

Homocysteine (µmol/L)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	27.5	2.1	7.7	28	19 - 36	5	16.0	0.1	0.0	16	11 - 21

LH (mIU/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	22	50.11	4.77	9.5	48.2	40.0 - 60.2	22	20.37	2.26	11.1	20.1	15.8 - 24.9
Beckman ACCESS / 2 / Dxl	14	48.81	5.06	10.4	46.9	38.6 - 59.0	14	19.60	2.10	10.7	19.1	15.3 - 23.9

Prealbumin (mg/dL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	18.0	Not graded	2	-	-	-	15.1	Not graded

Progesterone (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	32.47	5.09	15.7	30.8	22.7 - 42.3	18	13.39	2.96	22.1	12.1	9.3 - 17.5
Beckman ACCESS / 2 / Dxl	11	30.64	1.64	5.3	30.7	21.4 - 39.9	11	12.25	0.95	7.8	11.9	8.5 - 16.0

Prolactin (ng/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	53.87	5.45	10.1	52.8	37.7 - 70.1	22	21.11	2.54	12.0	20.9	14.7 - 27.5
Beckman ACCESS / 2 / Dxl	14	53.85	5.82	10.8	52.7	37.6 - 70.1	14	21.01	2.24	10.7	20.5	14.7 - 27.4

Testosterone (ng/dL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	49	1122.2	170.8	15.2	1091	785 - 1459	49	480.1	69.1	14.4	461	336 - 625
All TOSOH Instruments	12	1314.3	74.9	5.7	1315	920 - 1709	12	550.5	50.6	9.2	543	385 - 716
Abbott Architect	6	1132.0	74.3	6.6	1130	792 - 1472	6	468.7	35.0	7.5	460	328 - 610
Beckman ACCESS / 2 / Dxl	22	997.2	85.5	8.6	988	698 - 1297	22	428.0	36.7	8.6	422	299 - 557
TOSOH ST AIA PACK	10	1186.3	398.7	33.6	1315	830 - 1543	10	502.7	159.1	31.6	538	351 - 654

Transferrin (mg/dL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	172.4	7.2	4.2	173	155 - 190	9	140.8	4.7	3.3	141	126 - 155

Vitamin B₁₂ (pg/mL)

<u>Method</u>	Specimen SC-5						Specimen SC-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	74	981.5	140.0	14.3	976	687 - 1276	75	434.9	74.3	17.1	426	304 - 566
All Roche Instruments	7	1181.1	73.3	6.2	1160	826 - 1536	7	511.3	39.9	7.8	518	357 - 665
All TOSOH Instruments	11	1158.6	110.7	9.6	1132	811 - 1507	11	547.5	26.8	4.9	551	383 - 712
Abbott Architect	6	1088.3	79.9	7.3	1107	761 - 1415	6	447.7	33.7	7.5	458	313 - 582
Beckman ACCESS / 2 / Dxl	36	867.0	78.0	9.0	860	606 - 1128	34	368.3	24.1	6.5	370	257 - 479
Siemens Dimension	7	1052.7	54.2	5.1	1038	736 - 1369	7	461.3	26.7	5.8	468	322 - 600
TOSOH AIA PACK	7	1132.3	36.0	3.2	1132	792 - 1472	7	543.1	23.6	4.3	551	380 - 707

Serum Alcohol (mg/dL)

<u>Method</u>	Specimen ETH-11						Specimen ETH-12					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	119.7	6.8	5.7	122	89 - 150	5	158.7	6.0	3.8	158	119 - 199
<u>Method</u>	Specimen ETH-13						Specimen ETH-14					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	123.3	4.2	3.4	122	92 - 155	5	66.7	2.1	3.1	66	50 - 84
<u>Method</u>	Specimen ETH-15											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
ALL METHODS	5	19.0	1.7	9.1	18	14 - 24						

Acetone

<u>Method</u>	Specimen ETH-11					Specimen ETH-12				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	11	-	-	2	9	11	11	-	-	-
Biorex Labs K-CHECK	10	-	-	1	9	10	10	-	-	-
Germaine Laboratories AimTab	1	-	-	1	-	1	1	-	-	-

<u>Method</u>	Specimen ETH-13					Specimen ETH-14				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	11	11	-	-	-	11	-	6	5	-
Biorex Labs K-CHECK	10	10	-	-	-	10	-	5	5	-
Germaine Laboratories AimTab	1	1	-	-	-	1	-	1	-	-

<u>Method</u>	Specimen ETH-15				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	11	11	-	-	-
Biorex Labs K-CHECK	10	10	-	-	-
Germaine Laboratories AimTab	1	1	-	-	-

Thyroglobulin Antibody (IU/mL)

<u>Method</u>	Specimen THY-5						Specimen THY-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	483.647	156.934	32.4	550.10	12.84 - 954.45	18	4.428	7.349	166.0	0.10	0.00 - 26.48
Beckman ACCESS / 2 / Dxl	10	590.350	52.011	8.8	589.65	434.31 - 746.39	10	0.210	0.367	174.5	0.05	0.00 - 1.31

Thyroid Peroxidase Antibody (TPO) (IU/mL)

<u>Method</u>	Specimen THY-5						Specimen THY-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	71.455	18.732	26.2	68.90	15.25 - 127.66	23	4.643	9.348	201.3	0.00	0.00 - 32.69
Beckman ACCESS / 2 / Dxl	13	66.231	5.885	8.9	66.90	48.57 - 83.89	13	0.062	0.118	191.0	0.00	0.00 - 0.42

Ammonia (µmol/L)

<u>Method</u>	Specimen AMM-5						Specimen AMM-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	250.5	10.6	4.2	251	229 - 272	5	33.0	2.8	8.6	33	27 - 39

Adulterated Urine – Specific Gravity

<u>Method</u>	Specimen AUR-5						Specimen AUR-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	2	-	-	-	1.003	Not graded	2	-	-	-	1.003	Not graded

Adulterated Urine – Specific Gravity Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	2	2	-	2	2	-
Carolina Chemistries BiOlis	2	2	-	2	2	-

Adulterated Urine – pH

<u>Method</u>	Specimen AUR-5						Specimen AUR-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	2	-	-	-	2.59	Not graded	2	-	-	-	7.02	Not graded

Adulterated Urine – pH Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	3	-	3	3	3	-
Carolina Chemistries BiOlis	2	-	2	2	2	-
Indiko Plus	1	-	1	1	1	-

Adulterated Urine – Creatinine (mg/dL)

<u>Method</u>	Specimen AUR-5						Specimen AUR-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	62.55	1.91	3.1	62.6	51.9 - 73.2	5	6.95	0.07	1.0	7.0	3.9 - 10.0

Adulterated Urine – Creatinine Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	3	3	-	3	-	3
Beckman AU	1	1	-	1	-	1
Carolina Chemistries BiOlis	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1

Adulterated Urine – Nitrite Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	2	2	-	2	-	2
Beckman AU	2	2	-	2	-	2

Adulterated Urine – Oxidants Interpretation

<u>Method</u>	Specimen AUR-5			Specimen AUR-6		
	<u>Labs</u>	<u>Negative/ Normal</u>	<u>Positive/ Abnormal</u>	<u>Labs</u>	<u>Negative/ Normal</u>	<u>Positive/ Abnormal</u>
ALL METHODS	2	2	-	2	-	2
Beckman AU	2	2	-	2	-	2

Ethyl Glucuronide (EtG) (ng/mL)

<u>Method</u>	Specimen ETG-5			Specimen ETG-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	1	-	1	1	-
Cut-off 500						
Beckman AU	1	1	-	1	1	-
All Cut-off 500	1	1	-	1	1	-

Urine Drug Screen

Acetaminophen (µg/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

Amphetamines (ng/mL)

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	98	-	98	99	-	99
Cut-off 300						
Beckman AU	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 500						
Alere iCup	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	1	-	1	1	-	1
Mindray BS-200/BS-480	1	-	1	1	-	1
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Synermed IR 500	1	-	1	1	-	1
All Cut-off 500	22	-	22	22	-	22
Cut-off 1000						
Alere iCassette	4	-	4	4	-	4
Alere iCup	1	-	1	1	-	1
Alere iScreen	23	-	23	23	-	23
Beckman AU	1	-	1	1	-	1
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	2	-	2	3	-	3
First Sign Drugs of Abuse	7	-	7	7	-	7
Germaine Laboratories AimScreen	1	-	1	1	-	1
Healgen Scientific Urine Drug Test	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	8	-	8	8	-	8
Microgenics DRI	5	-	5	5	-	5
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
Siemens Viva-E	1	-	1	1	-	1
USDiagnosics One Step Multi-Drug	2	-	2	2	-	2
USDiagnosics UScreen Cup	6	-	6	6	-	6
All Cut-off 1000	73	-	73	74	-	74

Amphetamines/Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	14	-	14	14	-	14
Cut-off 300						
Roche Integra	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1
Cut-off 500						
Beckman AU	1	-	1	1	-	1
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	2	-	2	2	-	2
Indiko Plus	1	-	1	1	-	1
MEDTOX Diagnostics	1	-	1	1	-	1
USDiagnostics UScreen Cup	1	-	1	1	-	1
All Cut-off 500	7	-	7	7	-	7
Cut-off 1000						
Abbott Architect	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Microgenics DRI	2	-	2	2	-	2
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 1000	5	-	5	5	-	5

Barbiturates (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	80	3	77	80	77	3
Cut-off 100						
Beckman AU	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-
Cut-off 200						
Abbott Architect	1	-	1	1	1	-
Beckman AU	3	-	3	3	3	-
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Confirm Biosciences DoA Test	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	3	-	3	3	3	-
Roche Integra	2	-	2	2	2	-
Siemens Dimension	1	-	1	1	1	-
Siemens EMIT II Plus	3	-	3	3	3	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 200	23	-	23	23	23	-
Cut-off 300						
Alere iCassette	4	-	4	4	4	-
Alere iCup	2	-	2	2	2	-
Alere iScreen	23	2	21	23	21	2
CLIAwaived, Inc. Drug Test	5	1	4	5	4	1
McKesson Consult Drug Panel	1	-	1	1	1	-
McKesson Drug Panel	7	-	7	7	7	-
Microgenics DRI	1	-	1	1	1	-
Noble Medical Inc.	2	-	2	2	2	-
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	2	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	6	-	6	6	6	-
All Cut-off 300	56	3	53	56	53	3

Benzodiazepines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	104	-	104	104	-	104
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
All Cut-off 100	2	-	2	2	-	2
Cut-off 150						
Immunalysis	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 150	6	-	6	6	-	6
Cut-off 200						
Abbott Architect	1	-	1	1	-	1
Beckman AU	3	-	3	3	-	3
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Confirm Biosciences DoA Test	1	-	1	1	-	1
Indiko Plus	4	-	4	4	-	4
Microgenics DRI	6	-	6	6	-	6
Mindray BS-200/BS-480	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	22	-	22	22	-	22
Cut-off 300						
Alere iCassette	4	-	4	4	-	4
Alere iCup	2	-	2	2	-	2
Alere iScreen	24	-	24	24	-	24
Alfa Scientific Instant-View	2	-	2	2	-	2
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	7	-	7	7	-	7
First Sign Drugs of Abuse	8	-	8	8	-	8
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	8	-	8	8	-	8
Microgenics CEDIA	1	-	1	1	-	1
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Roche cobas 6000 / c 501	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	6	-	6	6	-	6
All Cut-off 300	72	-	72	72	-	72

Buprenorphine (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	41	-	41	41	-	41
Cut-off 5						
Beckman AU	2	-	2	2	-	2
Confirm Biosciences DoA Test	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
Microgenics CEDIA	4	-	4	4	-	4
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
All Cut-off 5	14	-	14	14	-	14
Cut-off 10						
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
Chemtron Biotech	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	6	-	6	6	-	6
First Sign Drugs of Abuse	1	-	1	1	-	1
McKesson Drug Panel	5	-	5	5	-	5
MEDTOX Diagnostics	3	-	3	3	-	3
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	3	-	3	3	-	3
All Cut-off 10	25	-	25	25	-	25
Cut-off 20						
Indiko Plus	1	-	1	1	-	1
Microgenics CEDIA	1	-	1	1	-	1
All Cut-off 20	2	-	2	2	-	2

Cannabinoids (THC) (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	100	2	98	100	97	3
Cut-off 20						
Roche Integra	1	-	1	1	1	-
All Cut-off 20	1	-	1	1	1	-
Cut-off 50						
Abbott Architect	1	-	1	1	1	-
Alere iCassette	4	-	4	4	4	-
Alere iCup	2	-	2	2	2	-
Alere iScreen	23	2	21	23	21	2
Alfa Scientific Instant-View	9	-	9	9	8	1
Beckman AU	3	-	3	3	3	-
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	2	-	2	2	2	-
CLIAwaived, Inc. Drug Test	3	-	3	3	3	-
Confirm Biosciences DoA Test	1	-	1	1	1	-
First Sign Drugs of Abuse	1	-	1	1	1	-
Germaine Laboratories AimScreen	4	-	4	4	4	-
Healgen Scientific Urine Drug Test	1	-	1	1	1	-
Indiko Plus	3	-	3	3	3	-
McKesson Consult Drug Panel	1	-	1	1	1	-
McKesson Drug Panel	8	-	8	8	8	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	5	-	5	5	5	-
Mindray BS-200/BS-480	1	-	1	1	1	-
Noble Medical Inc.	4	-	4	4	4	-
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	2	-
Roche cobas 6000 / c 501	1	-	1	1	1	-
Siemens Dimension	1	-	1	1	1	-
Siemens EMIT II Plus	3	-	3	3	3	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	6	-	6	6	6	-
All Cut-off 50	98	2	96	98	95	3
Cut-off 100						
Beckman AU	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-

Carisoprodol (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1
Cut-off 100						
Immunalysis	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

Cocaine Metabolites (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	119	116	3	119	3	116
Cut-off 50						
First Sign Drugs of Abuse	2	2	-	2	-	2
All Cut-off 50	2	2	-	2	-	2
Cut-off 100						
Beckman AU	1	1	-	1	-	1
All Cut-off 100	1	1	-	1	-	1
Cut-off 150						
Alere iCup	1	1	-	1	-	1
Beckman AU	2	2	-	2	-	2
CLIAwaived, Inc. Drug Test	4	3	1	4	1	3
Confirm Biosciences DoA Test	1	1	-	1	-	1
First Sign Drugs of Abuse	2	2	-	2	-	2
Immunalysis	1	1	-	1	-	1
Indiko Plus	2	2	-	2	-	2
MEDTOX Diagnostics	5	5	-	5	-	5
Microgenics DRI	1	1	-	1	-	1
Noble Medical Inc.	2	2	-	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	1	1	-	1	-	1
Roche Integra	1	1	-	1	-	1
Siemens Dimension	1	1	-	1	-	1
Synermed IR 500	1	1	-	1	-	1
All Cut-off 150	25	24	1	25	1	24
Cut-off 300						
Abbott Architect	1	1	-	1	-	1

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

	Specimen UDS-5			Specimen UDS-6		
Alere iCassette	4	4	-	4	-	4
Alere iCup	1	1	-	1	-	1
Alere iScreen	23	21	2	23	2	21
Alfa Scientific Instant-View	9	9	-	9	-	9
Beckman AU	1	1	-	1	-	1
BluRapids Multi-Drug Urine Test Cup	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	2	2	-	2	-	2
CLIAwaived, Inc. Drug Test	3	3	-	3	-	3
First Sign Drugs of Abuse	4	4	-	4	-	4
Germaine Laboratories AimScreen	4	4	-	4	-	4
Healgen Scientific Urine Drug Test	1	1	-	1	-	1
Indiko Plus	2	2	-	2	-	2
McKesson Consult Drug Panel	1	1	-	1	-	1
McKesson Drug Panel	8	8	-	8	-	8
Microgenics DRI	7	7	-	7	-	7
Noble Medical Inc.	2	2	-	2	-	2
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	3	3	-	3	-	3
USDiagnosics One Step Multi-Drug	2	2	-	2	-	2
USDiagnosics UScreen Cup	6	6	-	6	-	6
All Cut-off 300	89	87	2	89	2	87

Cotinine (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

EDDP (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	3	-	3	3	3	-
Cut-off 100						
Beckman AU	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-
Cut-off 150						
Microgenics DRI	1	-	1	1	1	-
All Cut-off 150	1	-	1	1	1	-
Cut-off 300						
Immunalysis	1	-	1	1	1	-
All Cut-off 300	1	-	1	1	1	-

Ethanol (Alcohol) (mg/dL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	10	-	10	10	-	10
Cut-off 10						
Abbott Architect	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 10	2	-	2	2	-	2
Cut-off 20						
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 20	1	-	1	1	-	1
Cut-off 40						
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 40	1	-	1	1	-	1
Cut-off 100						
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
Microgenics DRI	3	-	3	3	-	3
All Cut-off 100	6	-	6	6	-	6

Fentanyl (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	5	-	5	5	-	5
Cut-off 2						
Immunalysis	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
Microgenics DRI	2	-	2	2	-	2
All Cut-off 2	5	-	5	5	-	5

Hydrocodone (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1
Cut-off 300						
Indiko Plus	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1

LSD (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

MDMA (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	57	-	57	57	-	57
Cut-off 100						
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 500						
Alere iCup	2	-	2	2	-	2
Alere iScreen	23	-	23	23	-	23
Beckman AU	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	6	-	6	6	-	6
First Sign Drugs of Abuse	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	8	-	8	8	-	8
Microgenics DRI	1	-	1	1	-	1
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Siemens EMIT II Plus	1	-	1	1	-	1
USDiagnosics One Step Multi-Drug	2	-	2	2	-	2
USDiagnosics UScreen Cup	6	-	6	6	-	6
All Cut-off 500	56	-	56	56	-	56

Meperidine (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	1	-

Methadone (ng/mL)

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	87	83	4	87	3	84
Cut-off 100						
Beckman AU	1	1	-	1	-	1
All Cut-off 100	1	1	-	1	-	1
Cut-off 150						
Siemens EMIT II Plus	1	1	-	1	-	1
All Cut-off 150	1	1	-	1	-	1
Cut-off 200						
MEDTOX Diagnostics	5	5	-	5	-	5
All Cut-off 200	5	5	-	5	-	5
Cut-off 300						
Abbott Architect	1	1	-	1	-	1
Alere iCassette	4	4	-	4	-	4
Alere iCup	2	2	-	2	-	2
Alere iScreen	23	21	2	23	2	21
Beckman AU	2	2	-	2	-	2
BluRapid Multi-Drug Urine Test Cup	1	1	-	1	-	1
Carolina Chemistries BioLis 24i	2	2	-	2	-	2
CLIAwaived, Inc. Drug Test	5	4	1	5	1	4
Confirm Biosciences DoA Test	1	1	-	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Indiko Plus	3	3	-	3	-	3
McKesson Consult Drug Panel	1	1	-	1	-	1
McKesson Drug Panel	8	8	-	8	-	8
Microgenics DRI	7	7	-	7	-	7
Noble Medical Inc.	2	2	-	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	2	2	-	2	-	2
Roche cobas 6000 / c 501	1	1	-	1	-	1
Roche Integra	1	1	-	1	-	1
Siemens EMIT II Plus	2	2	-	2	-	2
Synermed IR 500	1	1	-	1	-	1
USDiagnostics One Step Multi-Drug	2	2	-	2	-	2
USDiagnostics UScreen Cup	6	6	-	6	-	6
All Cut-off 300	79	75	4	79	3	76
Cut-off 1000						
CLIAwaived, Inc. Drug Test	1	1	-	1	-	1
All Cut-off 1000	1	1	-	1	-	1

Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	74	-	74	74	4	70
Cut-off 500						
Alere iCup	1	-	1	1	-	1
Alere iScreen	23	-	23	23	4	19
Beckman AU	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	5	-	5	5	-	5
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
All Cut-off 500	40	-	40	40	4	36
Cut-off 1000						
Alere iCassette	4	-	4	4	-	4
Alere iCup	1	-	1	1	-	1
Alfa Scientific Instant-View	2	-	2	2	-	2
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	3	-	3	3	-	3
First Sign Drugs of Abuse	4	-	4	4	-	4
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	6	-	6	6	-	6
All Cut-off 1000	34	-	34	34	-	34

Methanol (mg/dL)

	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

Methaqualone (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1
Cut-off 300						
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1

6-MAM (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	6	-	6	6	-	6
Cut-off 10						
Beckman AU	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Microgenics CEDIA	3	-	3	3	-	3
Siemens Viva-E	1	-	1	1	-	1
All Cut-off 10	6	-	6	6	-	6

Opiates (Morphine Trihydrate) (ng/mL)

<u>Method</u>	<u>Specimen UDS-5</u>			<u>Specimen UDS-6</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	118	-	118	118	1	117
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	3	-	3	3	-	3
All Cut-off 100	5	-	5	5	-	5
Cut-off 300						
Abbott Architect	1	-	1	1	-	1
Alere iCup	1	-	1	1	-	1
Alere iScreen	24	-	24	24	-	24
Alfa Scientific Instant-View	2	-	2	2	1	1
Beckman AU	3	-	3	3	-	3
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	5	-	5	5	-	5
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	2	-	2	2	-	2
Indiko Plus	3	-	3	3	-	3
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	5	-	5	5	-	5
Microgenics DRI	7	-	7	7	-	7
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
Roche Integra	2	-	2	2	-	2

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

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
USDiagnosics One Step Multi-Drug	1	-	1	1	-	1
USDiagnosics UScreen Cup	6	-	6	6	-	6
All Cut-off 300	75	-	75	75	1	74
Cut-off 1000						
Indiko Plus	1	-	1	1	-	1
All Cut-off 1000	1	-	1	1	-	1
Cut-off 2000						
Alere iCassette	4	-	4	4	-	4
Alere iCup	1	-	1	1	-	1
Alfa Scientific Instant-View	7	-	7	7	-	7
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
First Sign Drugs of Abuse	5	-	5	5	-	5
Germaine Laboratories AimScreen	4	-	4	4	-	4
Healgen Scientific Urine Drug Test	1	-	1	1	-	1
McKesson Drug Panel	2	-	2	2	-	2
MEDTOX Diagnostics	2	-	2	2	-	2
Microgenics DRI	1	-	1	1	-	1
Noble Medical Inc.	3	-	3	3	-	3
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
USDiagnosics One Step Multi-Drug	1	-	1	1	-	1
All Cut-off 2000	36	-	36	36	-	36

Oxycodone (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	84	-	84	84	-	84
Cut-off 100						
Alere iCassette	2	-	2	2	-	2
Alere iCup	2	-	2	2	-	2
Alere iScreen	24	-	24	24	-	24
Beckman AU	3	-	3	3	-	3
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	6	-	6	6	-	6
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	8	-	8	8	-	8
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	5	-	5	5	-	5
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	6	-	6	6	-	6
All Cut-off 100	78	-	78	78	-	78
Cut-off 300						
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Indiko Plus	3	-	3	3	-	3
Microgenics DRI	2	-	2	2	-	2
All Cut-off 300	6	-	6	6	-	6

Phencyclidine (PCP) (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	74	-	74	74	1	73
Cut-off 25						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	4	-	4	4	-	4
Alere iCup	1	-	1	1	-	1
Alere iScreen	22	-	22	22	1	21
Beckman AU	2	-	2	2	-	2
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
BMC QuickTox Drug Screen	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Germaine Laboratories AimScreen	1	-	1	1	-	1
Healgen Scientific Urine Drug Test	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	6	-	6	6	-	6
MEDTOX Diagnostics	5	-	5	5	-	5
Microgenics DRI	2	-	2	2	-	2
Noble Medical Inc.	3	-	3	3	-	3
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	6	-	6	6	-	6
All Cut-off 25	73	-	73	73	1	72
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

Propoxyphene (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	18	-	18	18	18	-
Cut-off 300						
Abbott Architect	1	-	1	1	1	-
Alere iCassette	1	-	1	1	1	-
Beckman AU	1	-	1	1	1	-
BluRapids Multi-Drug Urine Test Cup	1	-	1	1	1	-
Carolina Chemistries BioLis 24i	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
McKesson Drug Panel	5	-	5	5	5	-
MEDTOX Diagnostics	5	-	5	5	5	-
Microgenics DRI	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 300	18	-	18	18	18	-

Tramadol (ng/mL)

	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	1	-	1	-	1
Cut-off 200						
Immunalysis	1	1	-	1	-	1
All Cut-off 200	1	1	-	1	-	1

Tricyclic Antidepressants (ng/mL)

<u>Method</u>	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	24	-	24	24	-	24
Cut-off 300						
MEDTOX Diagnostics	5	-	5	5	-	5
All Cut-off 300	5	-	5	5	-	5
Cut-off 1000						
Alere iCassette	1	-	1	1	-	1
Alere iCup	1	-	1	1	-	1
BluRapid Multi-Drug Urine Test Cup	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	6	-	6	6	-	6
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
USDiagnosics UScreen Cup	3	-	3	3	-	3
All Cut-off 1000	19	-	19	19	-	19

Zolpidem (mg/dL)

	Specimen UDS-5			Specimen UDS-6		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	1	-	1	-	1

Urine Amylase (U/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	119	Not graded	1	-	-	-	183	Not graded

Urine Calcium (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	9.2	Not graded	1	-	-	-	6.0	Not graded

Urine Chloride (mmol/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	93	Not graded	1	-	-	-	183	Not graded

Urine Creatinine (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	67.90	4.71	6.9	69.1	56.3 - 79.5	7	124.14	7.26	5.8	125.0	103.0 - 145.3

Urine Glucose (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	26	Not graded	1	-	-	-	149	Not graded

Urine Magnesium (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	2.4	Not graded	1	-	-	-	5.9	Not graded

Urine Osmolality (mOsm/kg)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	409	Not graded	1	-	-	-	651	Not graded

Urine Phosphorus (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	16.9	Not graded	1	-	-	-	33.4	Not graded

Urine Potassium (mmol/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	19.0	Not graded	1	-	-	-	65.5	Not graded

Urine Sodium (mmol/L)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	100	Not graded	1	-	-	-	151	Not graded

Urine Total Protein (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	11.48	2.49	21.7	12.0	6.4 - 16.6	5	50.44	0.69	1.4	50.3	28.2 - 72.7

Urine Urea Nitrogen (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	396	Not graded	1	-	-	-	542	Not graded

Urine Uric Acid (mg/dL)

<u>Method</u>	Specimen UCH-5						Specimen UCH-6					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	5.1	Not graded	1	-	-	-	7.2	Not graded

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