



AMERICAN ASSOCIATION OF BIOANALYSTS
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PARTICIPANT STATISTICS

BASIC CHEMISTRY

Chemistry Q1 2010

| Name | Line No. | Specimen 1 | | | | Specimen 2 | | | | Specimen 3 | | | | Specimen 4 | | | | Specimen 5 | | | | No. Labs |
|---|----------|--------------|------|-------|---|--------------|------|-------|---|--------------|------|-------|---|--------------|------|-------|---|--------------|------|-------|---|----------|
| | | Range & Type | Mean | SD | | Range & Type | Mean | SD | | Range & Type | Mean | SD | | Range & Type | Mean | SD | | Range & Type | Mean | SD | | |
| Sodium | | | | | | | | | | | | | | | | | | | | | | |
| Initial Grouping by Reagent and Instrument | | | | | | | | | | | | | | | | | | | | | | |
| Abaxis Piccolo & Abaxis Piccolo POC analyzer | 1 | 119-127 | C | 123.2 | 2 | 146-154 | C | 150.1 | 2 | 163-171 | C | 166.6 | 2 | 135-143 | C | 138.6 | 2 | 139-147 | C | 143.5 | 1 | 11 |
| Abbott ICT & Abbott Architect c, ci, i | 2 | 116-124 | C | 119.6 | 1 | 140-148 | C | 144.0 | 2 | 159-167 | C | 163.2 | 1 | 131-139 | C | 134.6 | 1 | 134-142 | C | 138.2 | 1 | 11 |
| Alfa Wassermann und ISE & Alfa Wasser ACE/Centr/Aiera | 3 | 115-123 | C | 119.0 | 2 | 139-147 | C | 142.7 | 1 | 164-172 | C | 168.2 | 2 | 132-140 | C | 135.5 | 1 | 131-139 | C | 135.2 | 1 | 70 |
| AVL und ISE & Roche/AVL 9100 series | 4 | 113-121 | C | 117.1 | 1 | 138-146 | C | 141.6 | 1 | 163-171 | C | 167.2 | 2 | 130-138 | C | 133.5 | 1 | 129-137 | C | 133.5 | 1 | 12 |
| Beckman dil ISE & Beckman Synchron CX4/CX5 | 5 | 116-124 | C | 120.4 | 2 | 140-148 | C | 144.1 | 2 | 157-165 | C | 160.6 | 2 | 131-139 | C | 134.7 | 2 | 135-143 | C | 138.9 | 2 | 21 |
| Beckman dil ISE & Beckman Synchron CX3/7/9/L | 6 | 115-123 | C | 119.3 | 2 | 141-149 | C | 144.6 | 2 | 156-164 | C | 160.4 | 3 | 131-139 | C | 135.0 | 2 | 135-143 | C | 139.2 | 2 | 40 |
| Beckman dil ISE & Beckman Unicel DXC series | 7 | 115-123 | C | 119.2 | 2 | 140-148 | C | 144.5 | 1 | 157-165 | C | 160.8 | 2 | 131-139 | C | 135.3 | 2 | 135-143 | C | 139.3 | 2 | 65 |
| Carolina dil ISE & Beckman Synchron CX3/7/9/L | 8 | 116-124 | C | 119.8 | 3 | 140-148 | C | 144.4 | 3 | 157-165 | C | 161.3 | 3 | 131-139 | C | 134.8 | 3 | 135-143 | C | 139.5 | 3 | 21 |
| Clin Data ATAC 8000 dil ISE & Vital Diagnostics ATAC 8000 | 9 | 115-123 | C | 119.2 | 3 | 141-149 | C | 145.4 | 3 | 158-166 | C | 162.5 | 3 | 132-140 | C | 135.8 | 3 | 136-144 | C | 140.5 | 3 | 24 |
| Clinical Data Envoy ISE & Vital Diagnostics Envoy 500 | 10 | 113-121 | C | 117.4 | 2 | 141-149 | C | 144.9 | 3 | 159-167 | C | 162.8 | 3 | 131-139 | C | 135.2 | 3 | 135-143 | C | 139.0 | 2 | 12 |
| Horiba ABX ISE & Horiba ABX Pentra 400 | 11 | 115-123 | C | 119.2 | 1 | 138-146 | C | 141.5 | 1 | 160-168 | C | 163.8 | 2 | 130-138 | C | 134.3 | 1 | 131-139 | C | 134.8 | 1 | 13 |
| J&J Vitros und ISE & J&J Vitros not DT or ECI | 12 | 116-124 | C | 120.2 | 2 | 141-149 | C | 144.6 | 2 | 165-173 | C | 169.2 | 3 | 133-141 | C | 136.7 | 2 | 134-142 | C | 138.1 | 2 | 86 |
| J&J Vitros und ISE & J&J Vitros 5,1 FS | 13 | 116-124 | C | 120.1 | 1 | 141-149 | C | 145.4 | 2 | 166-174 | C | 170.1 | 2 | 133-141 | C | 136.7 | 2 | 135-143 | C | 138.8 | 2 | 18 |
| Medica EasyLyte und ISE & Medica EasyLyte series | 14 | 117-125 | C | 121.0 | 1 | 140-148 | C | 144.2 | 2 | 162-170 | C | 166.0 | 2 | 132-140 | C | 136.0 | 1 | 133-141 | C | 137.1 | 1 | 22 |
| Beckman Olympus dil ISE & Beck Oly AU 400/600/5400 | 15 | 115-123 | C | 118.6 | 1 | 139-147 | C | 143.5 | 2 | 156-164 | C | 160.5 | 2 | 130-138 | C | 134.0 | 2 | 134-142 | C | 138.1 | 1 | 55 |
| Roche Cobas Integra dil ISE & Roche Cobas Integra | 16 | 114-122 | C | 118.0 | 1 | 139-147 | C | 143.5 | 1 | 157-165 | C | 160.8 | 1 | 130-138 | C | 133.6 | 1 | 134-142 | C | 137.5 | 1 | 25 |
| Roche Cobas und ISE & Roche Cobas Mira series | 17 | 119-127 | C | 122.8 | 2 | 143-151 | C | 146.8 | 2 | 166-174 | C | 169.9 | 3 | 135-143 | C | 139.1 | 2 | 136-144 | C | 140.1 | 1 | 12 |
| Siemens dil ISE & Siemens Advia series | 18 | 117-125 | C | 120.7 | 2 | 142-150 | C | 145.6 | 2 | 160-168 | C | 163.9 | 2 | 132-140 | C | 136.2 | 2 | 136-144 | C | 139.9 | 2 | 16 |
| Siemens MultiPLY IMT & Siemens Dimension series | 19 | 116-124 | C | 120.3 | 1 | 141-149 | C | 145.1 | 2 | 157-165 | C | 161.3 | 2 | 132-140 | C | 135.5 | 2 | 136-144 | C | 139.6 | 2 | 93 |
| Siemens MultiPLY IMT & Siemens Dimension EXL | 20 | 117-125 | C | 121.4 | 1 | 142-150 | C | 146.3 | 1 | 158-166 | C | 162.4 | 2 | 132-140 | C | 136.3 | 1 | 136-144 | C | 140.5 | 1 | 15 |
| Siemens MultiPLY IMT & Siemens Dimension RxI | 21 | 115-123 | C | 119.4 | 1 | 139-147 | C | 142.9 | 2 | 156-164 | C | 159.6 | 2 | 131-139 | C | 134.7 | 1 | 135-143 | C | 138.6 | 1 | 19 |
| Siemens MultiPLY IMT & Siemens Dimension Xpand | 22 | 117-125 | C | 120.9 | 1 | 142-150 | C | 146.0 | 2 | 158-166 | C | 162.4 | 2 | 132-140 | C | 136.2 | 2 | 137-145 | C | 140.5 | 2 | 84 |
| SDI Biomed & SDI CA240, 480 | 23 | 117-125 | C | 120.8 | 2 | 137-145 | C | 141.5 | 2 | 159-167 | C | 163.1 | 2 | 132-140 | C | 135.8 | 2 | 132-140 | C | 135.8 | 2 | 13 |
| Initial Grouping by Reagent | | | | | | | | | | | | | | | | | | | | | | |
| Abaxis Piccolo | 24 | 119-127 | C | 123.2 | 2 | 146-154 | C | 150.1 | 2 | 163-171 | C | 166.6 | 2 | 135-143 | C | 138.6 | 2 | 139-147 | C | 143.5 | 1 | 11 |
| Abbott ICT | 25 | 116-124 | C | 119.7 | 1 | 140-148 | C | 144.2 | 2 | 159-167 | C | 163.3 | 1 | 131-139 | C | 134.8 | 1 | 134-142 | C | 138.2 | 1 | 12 |
| Alfa Wassermann und ISE | 26 | 115-123 | C | 119.4 | 3 | 139-147 | C | 142.8 | 1 | 164-172 | C | 168.0 | 2 | 132-140 | C | 135.5 | 2 | 131-139 | C | 135.3 | 1 | 71 |
| AVL und ISE | 27 | 113-121 | C | 117.1 | 1 | 138-146 | C | 141.5 | 1 | 163-171 | C | 167.1 | 2 | 129-137 | C | 133.5 | 1 | 130-138 | C | 133.5 | 1 | 14 |
| Beckman dil ISE | 28 | 116-124 | C | 119.7 | 4 | 140-148 | C | 144.4 | 2 | 156-164 | C | 160.3 | 3 | 131-139 | C | 135.0 | 2 | 135-143 | C | 139.3 | 2 | 136 |
| Carolina dil ISE | 29 | 116-124 | C | 120.2 | 3 | 140-148 | C | 143.5 | 6 | 157-165 | C | 161.0 | 2 | 131-139 | C | 135.1 | 3 | 136-144 | C | 139.5 | 3 | 30 |
| Clin Data ATAC 8000 dil ISE | 30 | 115-123 | C | 119.2 | 3 | 141-149 | C | 145.4 | 3 | 158-166 | C | 162.5 | 3 | 132-140 | C | 135.8 | 3 | 136-144 | C | 140.5 | 3 | 24 |
| Clinical Data Envoy ISE | 31 | 113-121 | C | 117.3 | 2 | 141-149 | C | 144.9 | 3 | 159-167 | C | 163.1 | 3 | 131-139 | C | 135.1 | 2 | 135-143 | C | 139.1 | 2 | 15 |
| Horiba ABX ISE | 32 | 115-123 | C | 119.2 | 1 | 138-146 | C | 141.5 | 1 | 160-168 | C | 163.8 | 2 | 130-138 | C | 134.3 | 1 | 131-139 | C | 134.8 | 1 | 13 |
| J&J Vitros und ISE | 33 | 116-124 | C | 120.0 | 2 | 141-149 | C | 145.0 | 4 | 165-173 | C | 169.1 | 3 | 133-141 | C | 136.6 | 2 | 134-142 | C | 138.2 | 2 | 113 |
| Medica EasyLyte und ISE | 34 | 117-125 | C | 121.0 | 1 | 140-148 | C | 144.2 | 2 | 162-170 | C | 166.1 | 2 | 132-140 | C | 136.0 | 1 | 133-141 | C | 137.1 | 1 | 23 |
| Beckman Olympus dil ISE | 35 | 115-123 | C | 118.6 | 1 | 139-147 | C | 143.5 | 2 | 157-165 | C | 160.6 | 2 | 130-138 | C | 134.0 | 2 | 134-142 | C | 138.0 | 1 | 60 |
| Roche Cobas Integra dil ISE | 36 | 114-122 | C | 118.1 | 1 | 140-148 | C | 143.6 | 1 | 157-165 | C | 161.2 | 2 | 130-138 | C | 133.8 | 1 | 134-142 | C | 137.8 | 1 | 32 |
| Roche Cobas und ISE | 37 | 118-126 | C | 121.8 | 2 | 142-150 | C | 146.3 | 2 | 164-172 | C | 168.3 | 4 | 134-142 | C | 138.1 | 2 | 136-144 | C | 139.9 | 1 | 18 |
| Roche/Hitachi dil ISE | 38 | 115-123 | C | 119.0 | 2 | 140-148 | C | 144.3 | 2 | 159-167 | C | 162.6 | 2 | 131-139 | C | 134.9 | 2 | 134-142 | C | 138.3 | 2 | 28 |
| Siemens dil ISE | 39 | 117-125 | C | 120.7 | 2 | 142-150 | C | 145.7 | 2 | 160-168 | C | 163.7 | 2 | 132-140 | C | 136.2 | 2 | 136-144 | C | 140.1 | 2 | 18 |
| Siemens MultiPLY IMT | 40 | 117-125 | C | 120.6 | 1 | 141-149 | C | 145.4 | 2 | 158-166 | C | 161.7 | 2 | 132-140 | C | 135.8 | 2 | 136-144 | C | 140.0 | 2 | 212 |
| SDI Biomed | 41 | 117-125 | C | 120.8 | 2 | 137-145 | C | 141.5 | 2 | 159-167 | C | 163.1 | 2 | 132-140 | C | 135.8 | 2 | 132-140 | C | 135.8 | 2 | 13 |

| Name | Line No. | Specimen 1 | | | Specimen 2 | | | Specimen 3 | | | Specimen 4 | | | Specimen 5 | | | No. Labs | | | | | |
|---|----------|--------------|------|-------|--------------|---------|----|--------------|------|---------|--------------|-------|----|--------------|------|-------|----------|---------|---|-------|---|-----|
| | | Range & Type | Mean | SD | Range & Type | Mean | SD | Range & Type | Mean | SD | Range & Type | Mean | SD | Range & Type | Mean | SD | | | | | | |
| Initial Grouping by Sensitivity or Principle | | | | | | | | | | | | | | | | | | | | | | |
| Colorimetric | 42 | 119-127 | C | 122.7 | 2 | 145-153 | C | 149.4 | 3 | 162-170 | C | 166.3 | 2 | 134-142 | C | 138.1 | 3 | 139-147 | C | 143.5 | 1 | 12 |
| Diluted ISE | 43 | 115-123 | C | 119.4 | 3 | 140-148 | C | 144.2 | 3 | 157-165 | C | 161.3 | 3 | 131-139 | C | 134.9 | 2 | 135-143 | C | 138.9 | 2 | 376 |
| Undiluted ISE | 44 | 116-124 | C | 120.2 | 2 | 141-149 | C | 144.6 | 3 | 161-169 | C | 165.3 | 4 | 132-140 | C | 136.0 | 2 | 134-142 | C | 138.3 | 3 | 494 |
| Total Population | | | | | | | | | | | | | | | | | | | | | | |
| Whole Population | 45 | 116-124 | C | 119.8 | 2 | 140-148 | C | 144.5 | 3 | 160-168 | C | 163.5 | 4 | 131-139 | C | 135.5 | 2 | 135-143 | C | 138.6 | 3 | 921 |