

Laboratorio Emotest s.r.l.

MONTHLY HAEMATOLOGY

CYCLE 16 SAMPLE 8

Explanation of codes used in this report

R - Results removed due to reconstitution error
N - No result returned
C - Result corrected

Authorised by: Sally Picton, RIQAS Manager

Issue No: 1

Issue Date: 17/08/2023

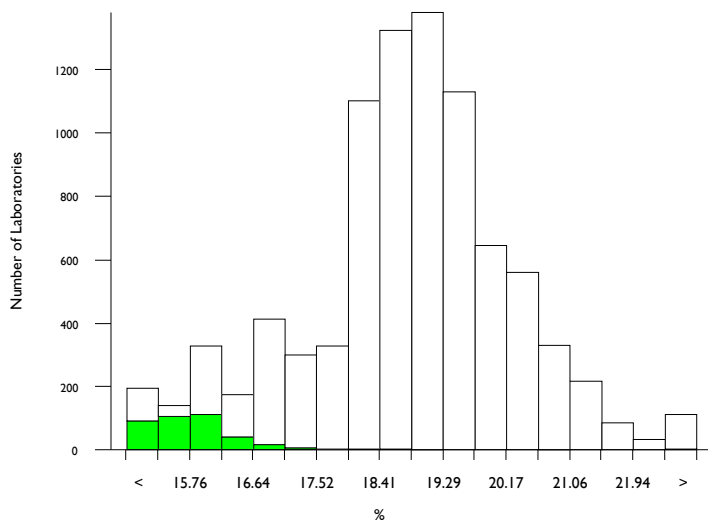
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55 Diamond Road
CRUMLIN BT29 4QY
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Fax: +44 (0)28 9445 4398
Email: mail@riqas.com

Haematocrit (HCT), %

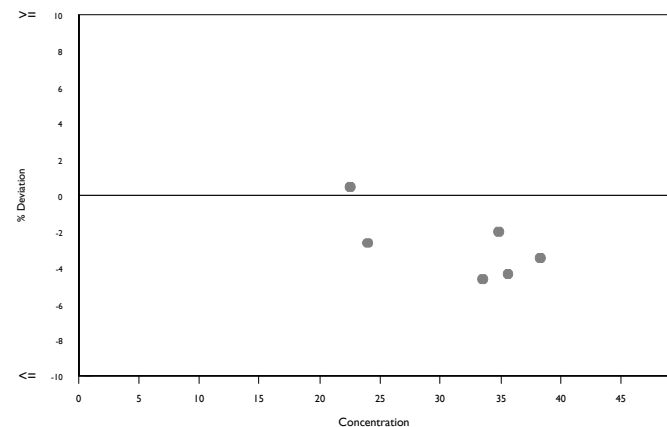
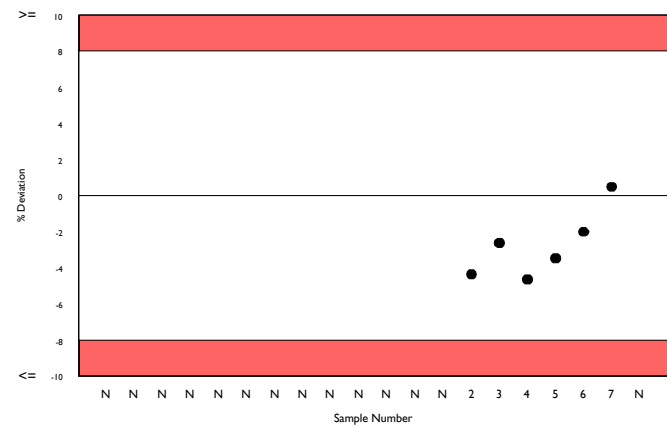
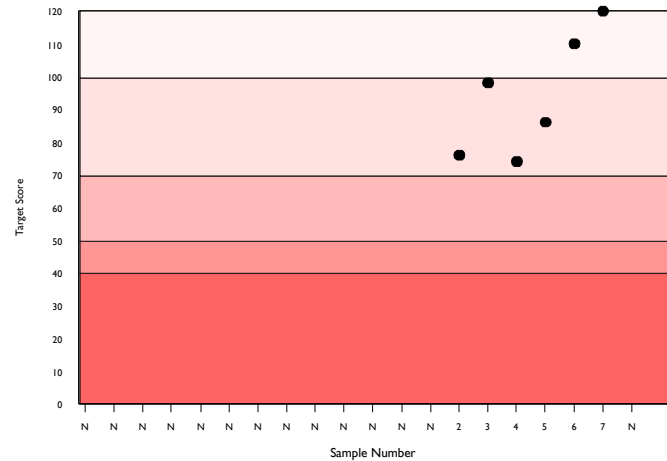
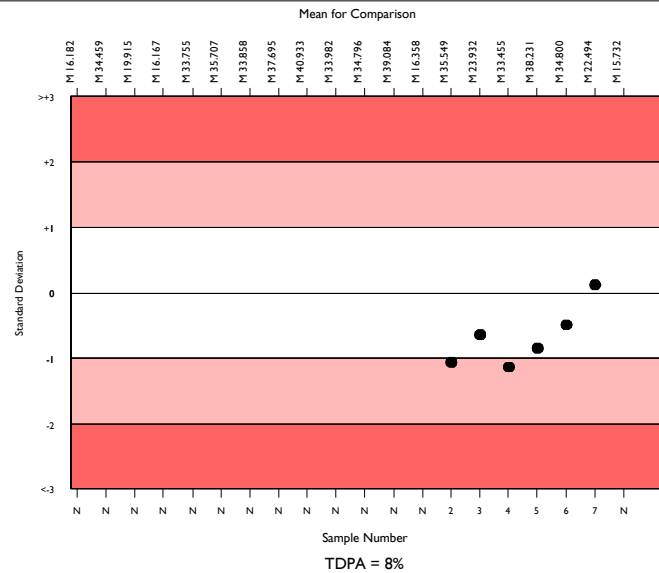
| | N | Mean | CV% | U _m | SDPA | Exc. |
|----------------------|------|--------|-----|----------------|------|------|
| All Methods | 8145 | 18.853 | 6.2 | 0.02 | 0.77 | 648 |
| Abbott Cell-Dyn Ruby | 352 | 15.732 | 3.2 | 0.03 | 0.64 | 32 |

| ▲ Your Result | No Result | SDI | RMSEI | Too Few |
|-----------------------|-----------|------|--------|---------|
| ▲ Mean for Comparison | 15.732 | TS | RMTS | Too Few |
| | | %DEV | RM%DEV | Too Few |

| | |
|---|-------|
| Acceptable limits derived from Biological Variation | N/A |
| Acceptable limits of performance for RIQAS | 8.00% |



| Method | N | Mean | CV% | U _m |
|---|------|--------|-----|----------------|
| Sysmex XN Series | 1821 | 18.844 | 2.6 | 0.01 |
| Sysmex XN-L Series (330/350/450/550) | 695 | 18.942 | 2.6 | 0.02 |
| Mindray BC-6000/6200/6600/6800/6800Plus | 406 | 20.711 | 2.5 | 0.03 |
| Beckman Coulter DxH 600/800/900 Series | 356 | 18.684 | 1.8 | 0.02 |
| Abbott Cell-Dyn Ruby | 352 | 15.732 | 3.2 | 0.03 |
| Sysmex XP Series | 344 | 18.412 | 3.3 | 0.04 |
| Mindray BC 1000/2000/3000 series | 289 | 19.290 | 4.0 | 0.06 |
| Nihon Kohden Celltac Alpha/plus | 282 | 19.485 | 3.6 | 0.05 |
| Microhematocrit Centrifugation | 279 | 16.939 | 3.7 | 0.05 |
| Sysmex XS series | 260 | 19.666 | 3.0 | 0.05 |
| Siemens/Bayer Advia 120/2120 | 252 | 16.376 | 2.6 | 0.03 |
| Manual Methods | 173 | 16.825 | 3.4 | 0.05 |
| Mindray BC 5100/5180/5300/5380/5390 | 171 | 20.018 | 3.2 | 0.06 |
| Mindray BC 5000/5150/5140/5130/5120 | 149 | 19.601 | 3.1 | 0.06 |
| ABX Micros/Minos/ABC VET | 137 | 18.297 | 4.3 | 0.08 |
| Mindray BC 10/20/30 | 134 | 19.311 | 3.0 | 0.06 |
| Sysmex XT series | 130 | 19.962 | 3.1 | 0.07 |
| Beckman Coulter DxH 500 Series | 120 | 18.710 | 3.0 | 0.06 |
| Horiba Yumizen H500/ 550 | 111 | 17.568 | 3.0 | 0.06 |
| Sysmex KX 21 | 106 | 18.586 | 4.2 | 0.10 |
| Horiba ABX Pentra 60/80/XLR | 103 | 17.481 | 2.5 | 0.05 |

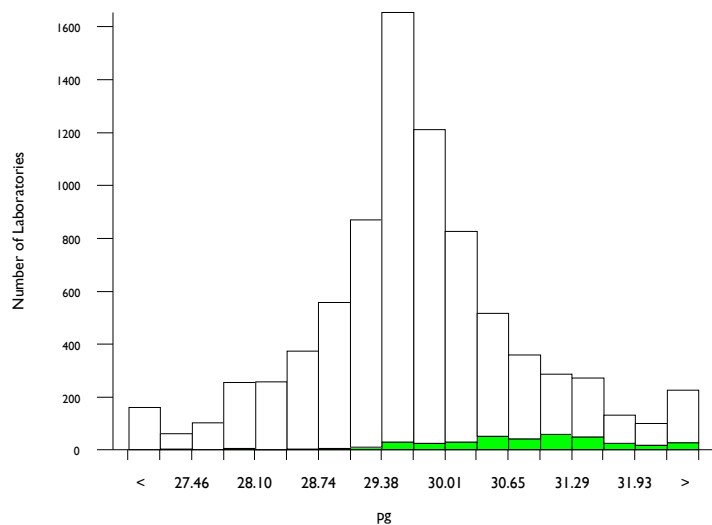


MCH, pg

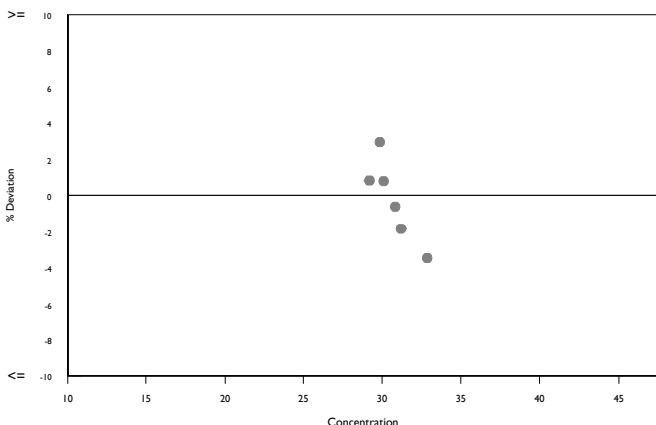
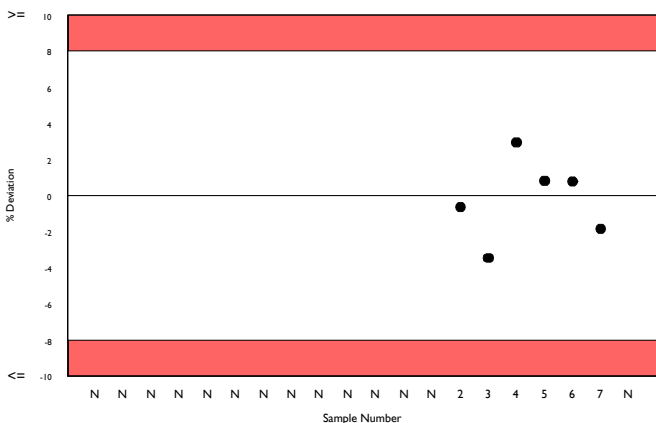
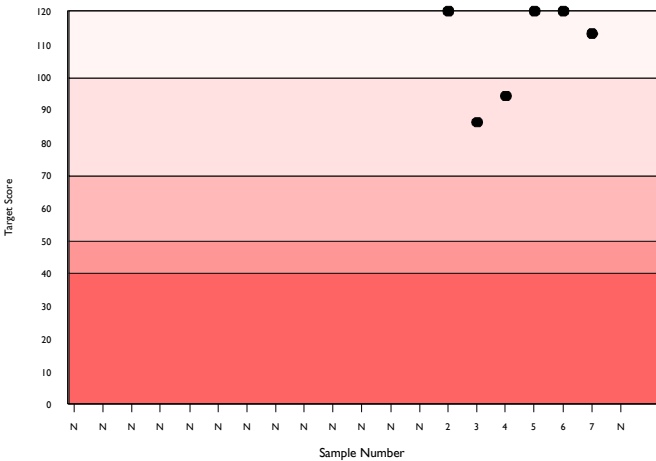
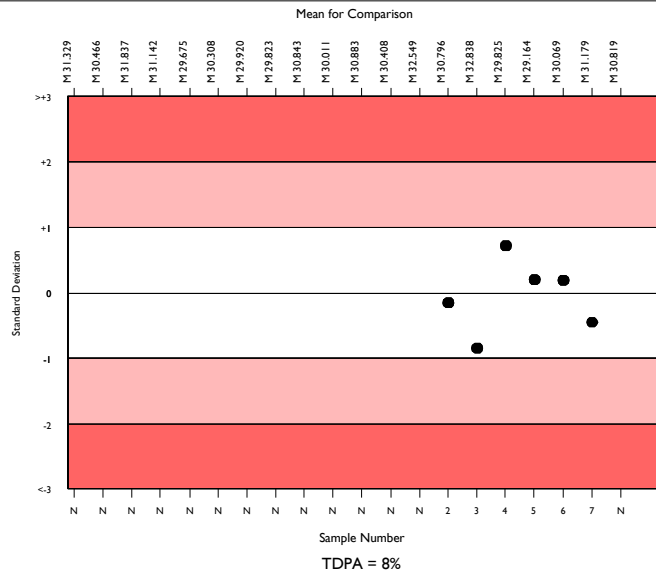
| | N | Mean | CV% | U _m | SDPA | Exc. |
|----------------------|------|--------|-----|----------------|------|------|
| All Methods | 7599 | 29.700 | 2.9 | 0.01 | 1.21 | 618 |
| Abbott Cell-Dyn Ruby | 354 | 30.819 | 2.6 | 0.05 | 1.26 | 27 |

| ▲ Your Result | No Result | SDI | Too Few |
|-----------------------|-----------|--------|---------|
| | | RMSDI | |
| ■ Mean for Comparison | 30.819 | TS | Too Few |
| | | RMTS | |
| | | %DEV | Too Few |
| | | RM%DEV | |

| | |
|---|-------|
| Acceptable limits derived from Biological Variation | N/A |
| Acceptable limits of performance for RIQAS | 8.00% |



| Method | N | Mean | CV% | U _m |
|---|------|--------|-----|----------------|
| Sysmex XN Series | 1828 | 29.669 | 1.5 | 0.01 |
| Sysmex XN-L Series (330/350/450/550) | 696 | 29.707 | 1.4 | 0.02 |
| Mindray BC-6000/6200/6600/6800/6800Plus | 408 | 29.538 | 1.8 | 0.03 |
| Beckman Coulter DxH 600/800/900 Series | 364 | 29.839 | 1.4 | 0.03 |
| Abbott Cell-Dyn Ruby | 354 | 30.819 | 2.6 | 0.05 |
| Sysmex XP Series | 338 | 28.666 | 2.8 | 0.06 |
| Mindray BC 1000/2000/3000 series | 283 | 28.826 | 3.7 | 0.08 |
| Nihon Kohden Celltac Alpha/plus | 274 | 29.588 | 3.7 | 0.08 |
| Sysmex XS series | 255 | 29.537 | 1.9 | 0.04 |
| Siemens/Bayer Advia 120/2120 | 246 | 31.060 | 2.1 | 0.05 |
| Mindray BC 5100/5180/5300/5380/5390 | 170 | 29.688 | 2.1 | 0.06 |
| Mindray BC 5000/5150/5140/5130/5120 | 147 | 30.096 | 2.5 | 0.08 |
| Mindray BC 10/20/30 | 133 | 30.591 | 2.7 | 0.09 |
| ABX Micros/Minos/ABC VET | 127 | 29.546 | 4.1 | 0.13 |
| Sysmex XT series | 128 | 29.311 | 1.9 | 0.06 |
| Beckman Coulter DxH 500 Series | 122 | 29.108 | 2.6 | 0.09 |
| Horiba Yumizen H500/ 550 | 110 | 30.615 | 2.1 | 0.08 |
| Sysmex KX 21 | 106 | 29.014 | 2.9 | 0.10 |
| Horiba ABX Pentra 60/80/XLR | 104 | 29.697 | 1.9 | 0.07 |
| Boule Medonic/ Swelab 3-part diff | 96 | 31.580 | 3.4 | 0.14 |
| Nihon Kohden Celltac E/Es | 91 | 29.291 | 2.7 | 0.10 |

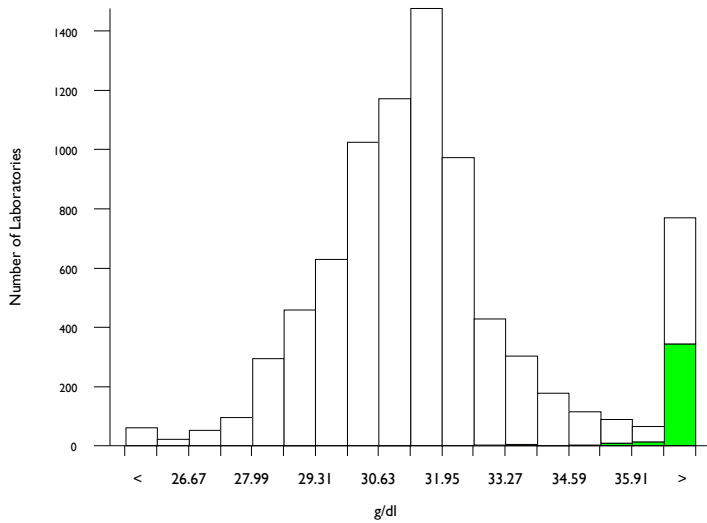


MCHC, g/dl

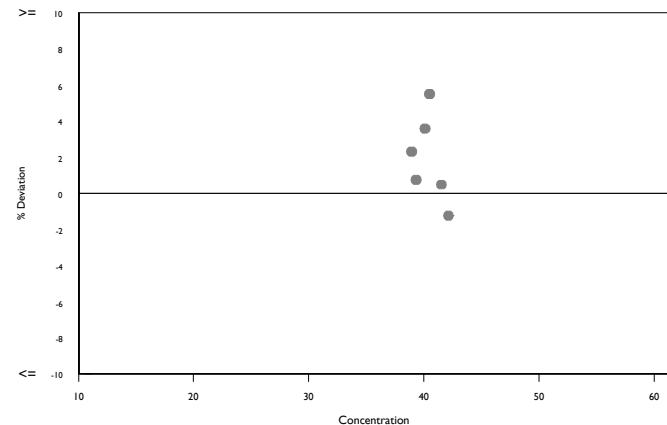
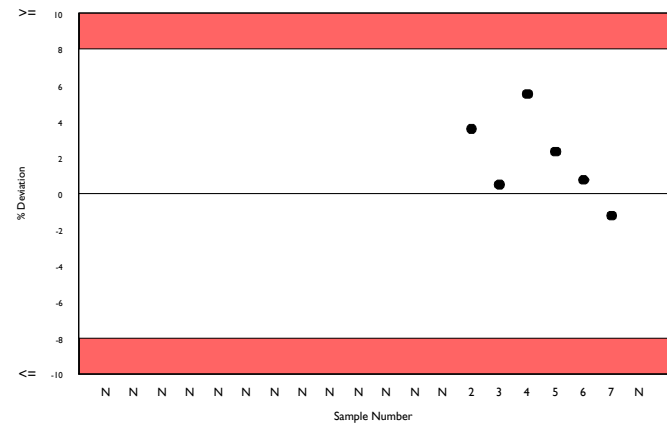
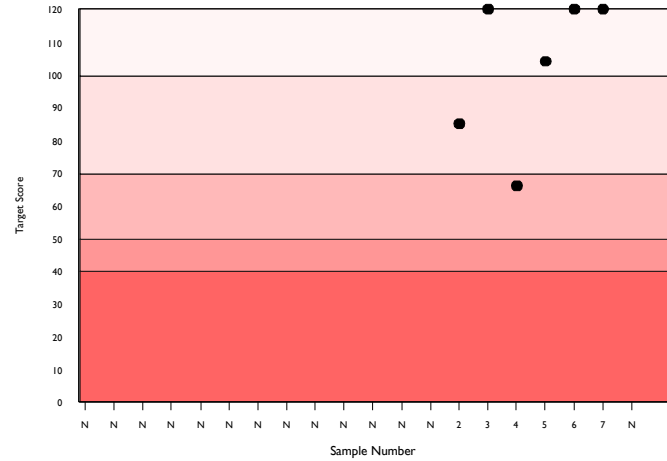
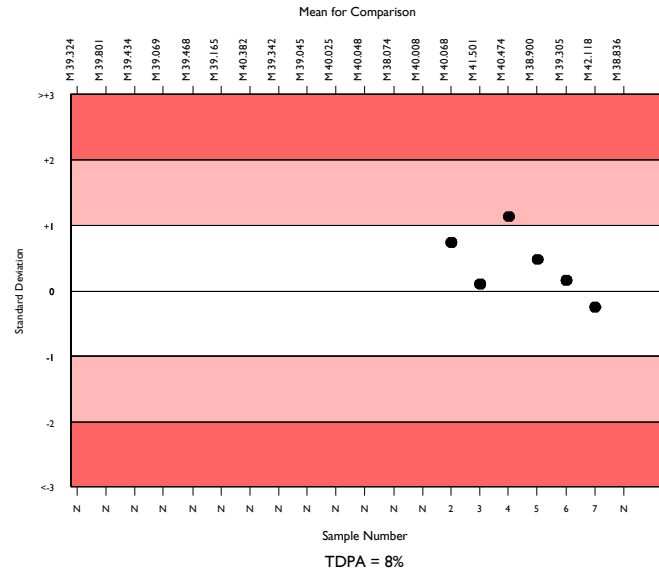
| | N | Mean | CV% | U _m | SDPA | Exc. |
|----------------------|------|--------|-----|----------------|------|------|
| All Methods | 7437 | 31.292 | 5.6 | 0.03 | 1.52 | 759 |
| Abbott Cell-Dyn Ruby | 343 | 38.836 | 3.3 | 0.09 | 1.89 | 37 |

| | | | |
|-----------------------|-----------|--------|---------|
| ▲ Your Result | No Result | SDI | Too Few |
| | | RMSDI | Too Few |
| ■ Mean for Comparison | 38.836 | TS | Too Few |
| | | RMTS | Too Few |
| | | %DEV | Too Few |
| | | RM%DEV | Too Few |

| | |
|---|-------|
| Acceptable limits derived from Biological Variation | N/A |
| Acceptable limits of performance for RIQAS | 8.00% |



| Method | N | Mean | CV% | U _m |
|---|------|--------|-----|----------------|
| Sysmex XN Series | 1830 | 31.490 | 2.7 | 0.03 |
| Sysmex XN-L Series (330/350/450/550) | 692 | 30.987 | 2.4 | 0.04 |
| Mindray BC-6000/6200/6600/6800/6800Plus | 403 | 29.037 | 2.5 | 0.04 |
| Beckman Coulter DxH 600/800/900 Series | 365 | 31.592 | 1.9 | 0.04 |
| Abbott Cell-Dyn Ruby | 343 | 38.836 | 3.3 | 0.09 |
| Sysmex XP Series | 333 | 31.825 | 3.9 | 0.08 |
| Mindray BC 1000/2000/3000 series | 280 | 30.830 | 4.3 | 0.10 |
| Nihon Kohden Celltac Alpha/plus | 268 | 31.398 | 4.3 | 0.10 |
| Sysmex XS series | 250 | 29.888 | 3.0 | 0.07 |
| Siemens/Bayer Advia 120/2120 | 247 | 38.401 | 2.8 | 0.09 |
| Mindray BC 5100/5180/5300/5380/5390 | 169 | 30.080 | 3.2 | 0.09 |
| Mindray BC 5000/5150/5140/5130/5120 | 148 | 30.694 | 3.1 | 0.10 |
| Mindray BC 10/20/30 | 130 | 31.708 | 3.1 | 0.11 |
| Sysmex XT series | 133 | 29.883 | 3.7 | 0.12 |
| ABX Micros/Minos/ABC VET | 127 | 32.426 | 5.0 | 0.18 |
| Beckman Coulter DxH 500 Series | 117 | 31.284 | 3.1 | 0.11 |
| Horiba Yumizen H500/ 550 | 104 | 34.595 | 2.5 | 0.10 |
| Sysmex KX 21 | 105 | 31.940 | 4.2 | 0.16 |
| Horiba ABX Pentra 60/80/XLR | 103 | 33.504 | 2.5 | 0.10 |
| Boule Medonic/ Swelab 3-part diff | 92 | 34.450 | 4.5 | 0.20 |
| Nihon Kohden Celltac E/Es | 88 | 30.642 | 3.3 | 0.14 |

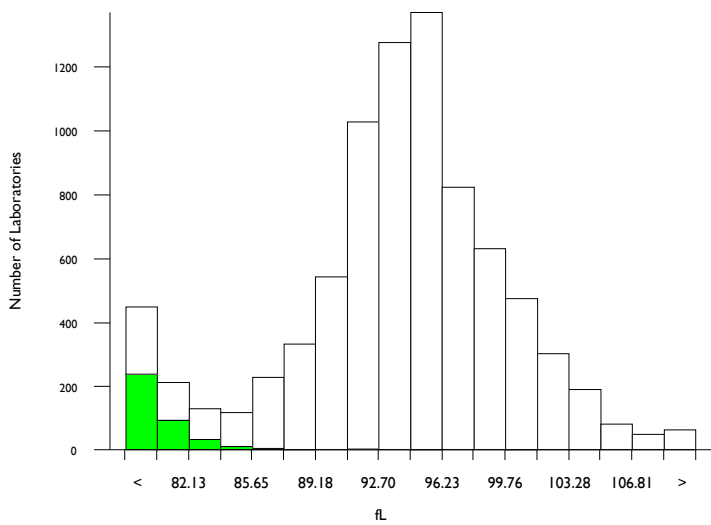


MCV, fL

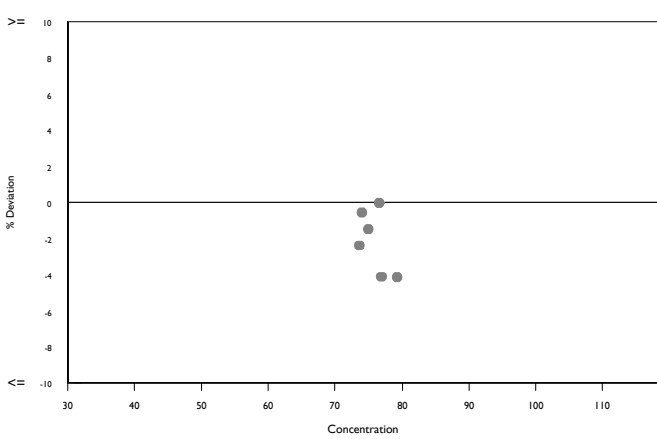
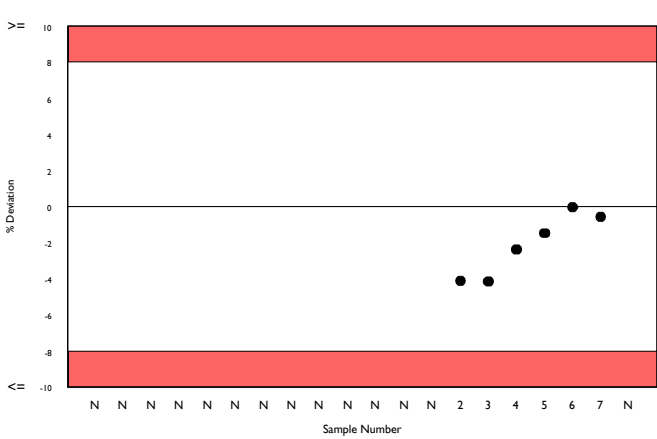
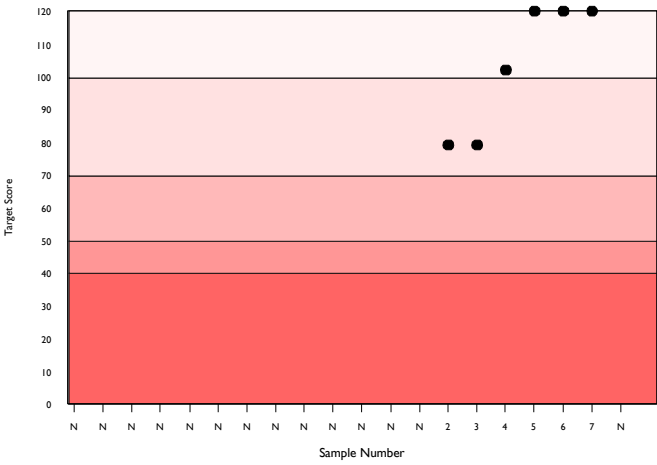
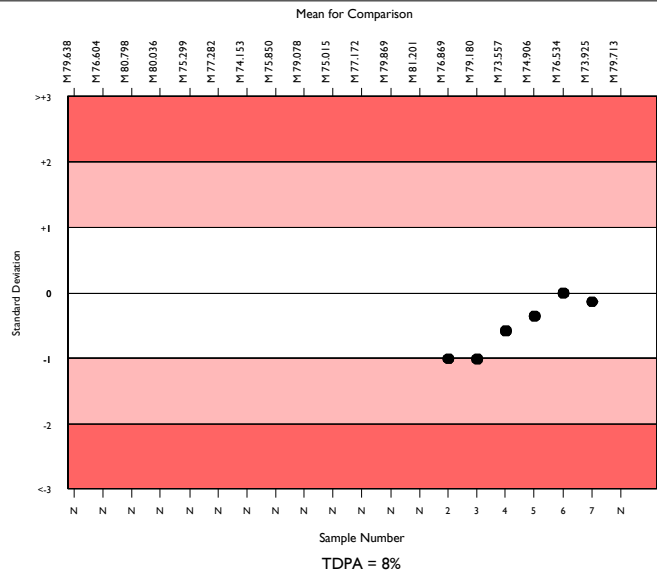
| | N | Mean | CV% | U _m | SDPA | Exc. |
|----------------------|------|--------|-----|----------------|------|------|
| All Methods | 7578 | 94.473 | 5.0 | 0.07 | 3.86 | 706 |
| Abbott Cell-Dyn Ruby | 350 | 79.713 | 2.3 | 0.13 | 3.25 | 34 |

| ▲ Your Result | No Result | SDI | RMSEI | Too Few |
|-----------------------|-----------|------|--------|---------|
| ▲ Mean for Comparison | 79.713 | TS | RMTS | Too Few |
| | | %DEV | RM%DEV | Too Few |

| | |
|---|-------|
| Acceptable limits derived from Biological Variation | N/A |
| Acceptable limits of performance for RIQAS | 8.00% |



| Method | N | Mean | CV% | U _m |
|---|------|---------|-----|----------------|
| Sysmex XN Series | 1804 | 94.070 | 2.3 | 0.06 |
| Sysmex XN-L Series (330/350/450/550) | 687 | 95.869 | 2.1 | 0.09 |
| Mindray BC-6000/6200/6600/6800/6800Plus | 404 | 101.821 | 2.0 | 0.13 |
| Beckman Coulter DxH 600/800/900 Series | 359 | 94.319 | 1.4 | 0.09 |
| Abbott Cell-Dyn Ruby | 350 | 79.713 | 2.3 | 0.13 |
| Sysmex XP Series | 341 | 89.669 | 2.8 | 0.17 |
| Mindray BC 1000/2000/3000 series | 288 | 93.389 | 3.0 | 0.21 |
| Nihon Kohden Celltac Alpha/plus | 284 | 94.260 | 3.4 | 0.24 |
| Sysmex XS series | 255 | 98.663 | 2.6 | 0.20 |
| Siemens/Bayer Advia 120/2120 | 250 | 80.927 | 2.3 | 0.15 |
| Mindray BC 5100/5180/5300/5380/5390 | 170 | 98.876 | 2.6 | 0.25 |
| Mindray BC 5000/5150/5140/5130/5120 | 141 | 98.044 | 2.2 | 0.22 |
| Mindray BC 10/20/30 | 134 | 96.141 | 2.8 | 0.29 |
| ABX Micros/Minos/ABC VET | 129 | 90.623 | 3.1 | 0.31 |
| Sysmex XT series | 131 | 97.943 | 2.7 | 0.29 |
| Beckman Coulter DxH 500 Series | 119 | 93.229 | 2.1 | 0.23 |
| Horiba Yumizen H500/ 550 | 106 | 88.409 | 2.3 | 0.25 |
| Sysmex KX 21 | 101 | 90.674 | 3.6 | 0.41 |
| Horiba ABX Pentra 60/80/XLR | 103 | 88.419 | 2.8 | 0.30 |
| Boule Medonic/ Swelab 3-part diff | 89 | 91.566 | 2.5 | 0.31 |
| Nihon Kohden Celltac E/Es | 88 | 95.587 | 2.4 | 0.31 |

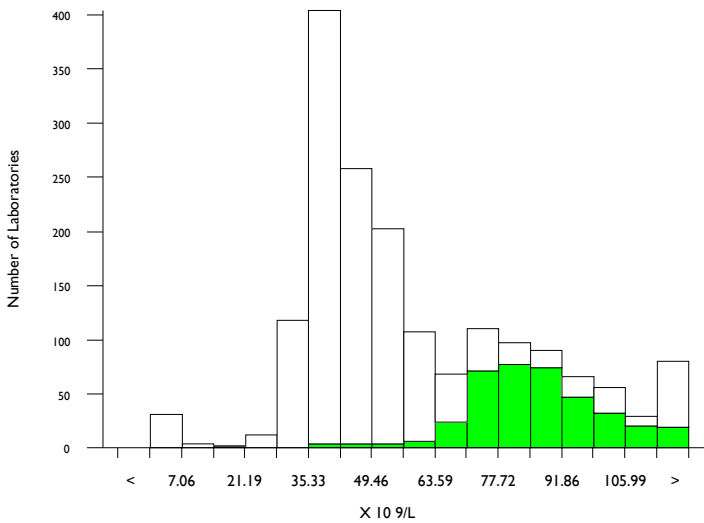


Platelets (Optical Count), X 10⁹/L

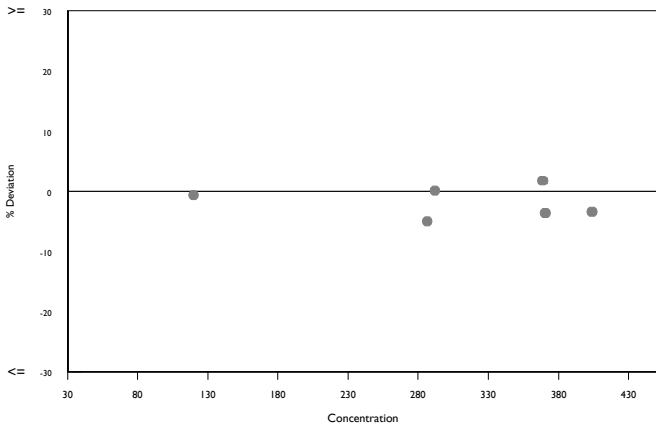
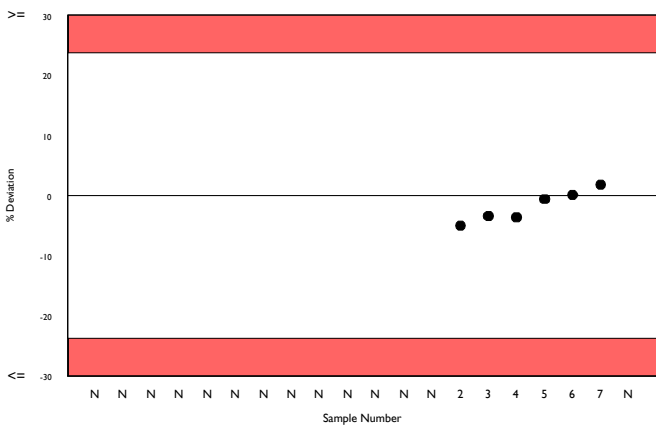
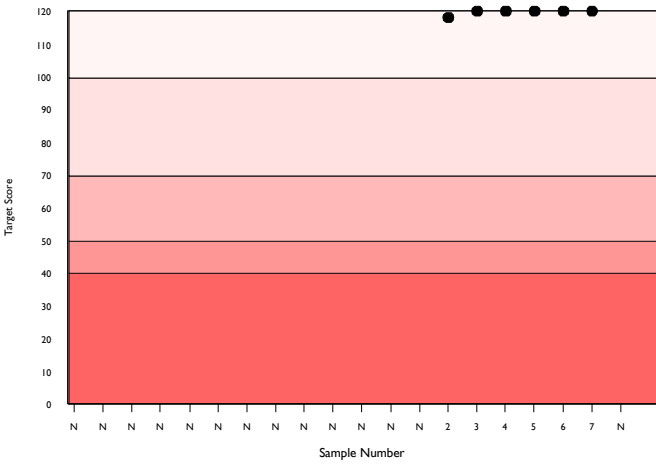
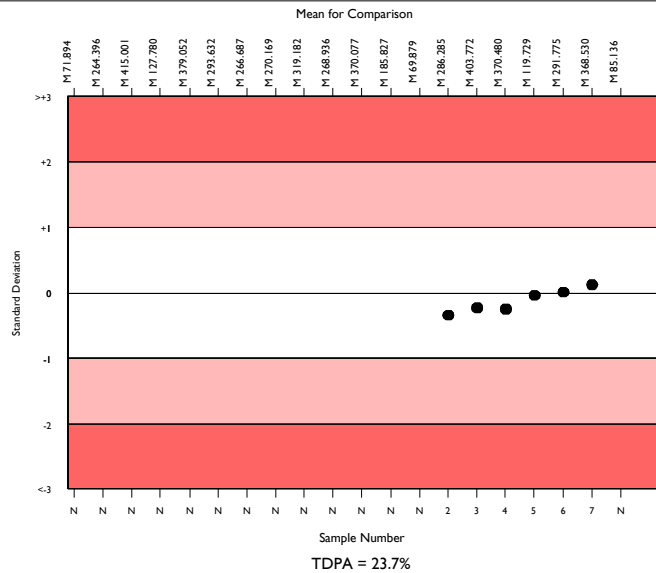
| | N | Mean | CV% | U _m | SDPA | Exc. |
|----------------------|------|--------|------|----------------|-------|------|
| All Methods | 1561 | 55.197 | 34.9 | 0.61 | 7.95 | 174 |
| Abbott Cell-Dyn Ruby | 351 | 85.136 | 13.6 | 0.77 | 12.27 | 32 |

| ▲ Your Result | No Result | SDI | RMSEI | Too Few |
|-----------------------|-----------|------|--------|---------|
| ▲ Mean for Comparison | 85.136 | TS | RMST | Too Few |
| | | %DEV | RM%DEV | Too Few |

| | |
|---|--------|
| Acceptable limits derived from Biological Variation | N/A |
| Acceptable limits of performance for RIQAS | 23.70% |



| Method | N | Mean | CV% | U _m |
|---|-----|--------|------|----------------|
| Manual Methods | 337 | 52.498 | 21.0 | 0.75 |
| Abbott Cell-Dyn Ruby | 351 | 85.136 | 13.6 | 0.77 |
| Siemens/Bayer Advia 120/2120 | 253 | 37.010 | 11.0 | 0.32 |
| Sysmex XN Series PLT-O | 120 | 46.825 | 31.7 | 1.69 |
| Abbott Alinity hq | 78 | 54.504 | 12.5 | 0.97 |
| Mindray BC-6000/6200/6600/6800/6800Plus | 73 | 49.872 | 22.9 | 1.67 |
| Sysmex XN-L Series (330/350/450/550) | 67 | 40.784 | 10.8 | 0.67 |
| Sysmex XS Series | 52 | 41.804 | 7.7 | 0.55 |
| Sysmex XT Series | 24 | 46.053 | 14.7 | 1.72 |
| Abbott Cell-Dyn 3200 | 24 | 70.119 | 27.0 | 4.83 |
| Beckman Coulter DxH 600/800/900 Series | 24 | 46.278 | 6.8 | 0.80 |
| Horiba Yumizen H500/ 550 | 14 | 55.521 | 18.5 | 3.43 |
| Sysmex XN Series PLT-F | 13 | 39.385 | 6.8 | 0.93 |
| Abbott Cell-Dyn Sapphire | 11 | 80.164 | 11.2 | 3.37 |
| Sysmex KX21 | 10 | 40.400 | 11.0 | 1.76 |
| Beckman Coulter DxH 500 Series | 10 | 42.800 | 12.2 | 2.07 |
| Horiba ABX Pentra 60/80/XLR | 8 | 40.988 | 7.6 | 1.38 |
| Mindray BC-700 series | 9 | 49.056 | 21.4 | 4.38 |
| UDIHEM-D | 7 | 46.857 | 13.1 | 2.89 |
| ABX Micros/Minos/ABC VET | 5 | 53.400 | 12.8 | 3.82 |
| IDEXX ProCyte Dx Haematology Analyser | 2 | 40.000 | 10.6 | 3.75 |



| Analyte | Mean for Comparison | Your Result | SDI | RMSDI | %DEV | RM%DEV | TS | RMTS | Performance |
|---------------------------|---------------------|-------------|-----|---------|------|---------|----|---------|-------------|
| Haemoglobin | 6.104 | No Result | | Too Few | | Too Few | | Too Few | |
| Haematocrit (HCT) | 15.732 | No Result | | Too Few | | Too Few | | Too Few | |
| MCH | 30.819 | No Result | | Too Few | | Too Few | | Too Few | |
| MCHC | 38.836 | No Result | | Too Few | | Too Few | | Too Few | |
| MCV | 79.713 | No Result | | Too Few | | Too Few | | Too Few | |
| Mean Platelet Volume | 6.368 | No Result | | Too Few | | Too Few | | Too Few | |
| Platelets (Optical Count) | 85.136 | No Result | | Too Few | | Too Few | | Too Few | |
| RBC (Optical Count) | 1.975 | No Result | | Too Few | | Too Few | | Too Few | |
| WBC (Optical Count) | 3.016 | No Result | | Too Few | | Too Few | | Too Few | |

ORMSDI N/A

ORM%DEV N/A

ORMTS N/A

END OF REPORT

