Table S1 The accuracy and precision of BIC, M7 and M8 in the three analytes.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Group** | **No.** | **Con.-M7** | **RR-M7** | **Con.-M8** | **RR-M8** | **Con.-BIC** | **RR-BIC** |
| **Day1** | LL-1 | 4.21 | 105.36 | 1.11 | 110.99 | 4.14 | 103.54 |
| LL-2 | 4.70 | 117.49 | 1.04 | 103.58 | 3.76 | 94.02 |
| LL-3 | 3.87 | 96.65 | 0.95 | 94.78 | 4.43 | 110.87 |
| LL-4 | 4.10 | 102.44 | 0.85 | 84.55 | 3.77 | 94.33 |
| LL-5 | 3.75 | 93.71 | 0.89 | 88.65 | 3.69 | 92.28 |
| LL-6 | 3.83 | 95.67 | 0.86 | 86.02 | 3.74 | 93.38 |
| L1 | 9.13 | 91.34 | 2.29 | 91.43 | 10.66 | 106.60 |
| L2 | 8.87 | 88.68 | 2.17 | 86.62 | 9.32 | 93.24 |
| L3 | 10.39 | 103.88 | 2.36 | 94.22 | 9.51 | 95.09 |
| L4 | 8.64 | 86.44 | 2.32 | 92.64 | 10.03 | 100.31 |
| L5 | 9.23 | 92.29 | 2.59 | 103.78 | 9.12 | 91.19 |
| L6 | 8.85 | 88.47 | 2.18 | 87.27 | 8.87 | 88.71 |
| M1 | 92.86 | 92.86 | 26.79 | 107.18 | 92.51 | 92.51 |
| M2 | 95.62 | 95.62 | 23.90 | 95.60 | 108.39 | 108.39 |
| M3 | 88.85 | 88.85 | 24.43 | 97.73 | 103.61 | 103.61 |
| M4 | 91.64 | 91.64 | 23.16 | 92.65 | 101.49 | 101.49 |
| M5 | 85.72 | 85.72 | 21.80 | 87.21 | 88.88 | 88.88 |
| M6 | 109.20 | 109.20 | 22.07 | 88.30 | 92.64 | 92.64 |
| H1 | 1458.40 | 91.15 | 366.11 | 91.53 | 1397.36 | 87.33 |
| H2 | 1659.15 | 103.70 | 430.32 | 107.58 | 1463.85 | 91.49 |
| H3 | 1385.39 | 86.59 | 348.07 | 87.02 | 1510.25 | 94.39 |
| H4 | 1418.20 | 88.64 | 401.59 | 100.40 | 1614.17 | 100.89 |
| H5 | 1561.68 | 97.60 | 362.46 | 90.61 | 1375.16 | 85.95 |
| H6 | 1409.66 | 88.10 | 358.61 | 89.65 | 1479.97 | 92.50 |
| **Day2** | LL-1 | 3.88 | 97.09 | 0.95 | 94.71 | 4.22 | 105.52 |
| LL-2 | 3.62 | 90.46 | 0.86 | 86.29 | 4.67 | 116.87 |
| LL-3 | 3.71 | 92.72 | 0.97 | 97.02 | 4.27 | 106.81 |
| LL-4 | 3.59 | 89.69 | 0.87 | 87.10 | 4.43 | 110.67 |
| LL-5 | 4.19 | 104.65 | 0.83 | 83.08 | 3.83 | 95.83 |
| LL-6 | 3.47 | 86.66 | 0.87 | 86.91 | 4.12 | 102.97 |
| L1 | 8.90 | 88.95 | 2.26 | 90.55 | 9.66 | 96.64 |
| L2 | 9.16 | 91.61 | 2.15 | 85.84 | 10.75 | 107.47 |
| L3 | 8.79 | 87.88 | 2.28 | 91.13 | 10.98 | 109.76 |
| L4 | 9.59 | 95.95 | 2.32 | 92.61 | 10.78 | 107.83 |
| L5 | 9.65 | 96.50 | 2.32 | 92.84 | 10.48 | 104.82 |
| L6 | 8.60 | 85.98 | 2.55 | 102.12 | 9.48 | 94.85 |
| M1 | 88.76 | 88.76 | 22.46 | 89.83 | 90.21 | 90.21 |
| M2 | 111.87 | 111.87 | 26.48 | 105.93 | 93.26 | 93.26 |
| M3 | 86.97 | 86.97 | 21.37 | 85.47 | 85.88 | 85.88 |
| M4 | 91.35 | 91.35 | 22.76 | 91.04 | 92.51 | 92.51 |
| M5 | 85.35 | 85.35 | 21.73 | 86.92 | 88.46 | 88.46 |
| M6 | 90.20 | 90.20 | 22.53 | 90.11 | 93.71 | 93.71 |
| H1 | 1663.83 | 103.99 | 350.65 | 87.66 | 1399.85 | 87.49 |
| H2 | 1464.92 | 91.56 | 430.11 | 107.53 | 1551.39 | 96.96 |
| H3 | 1513.14 | 94.57 | 384.66 | 96.17 | 1522.73 | 95.17 |
| H4 | 1411.33 | 88.21 | 355.52 | 88.88 | 1458.65 | 91.17 |
| H5 | 1437.42 | 89.84 | 360.54 | 90.13 | 1412.05 | 88.25 |
| H6 | 1713.52 | 107.10 | 363.81 | 90.95 | 1682.22 | 105.14 |
| **Day3** | LL-1 | 4.36 | 109.08 | 1.15 | 114.72 | 4.02 | 100.59 |
| LL-2 | 3.81 | 95.31 | 1.12 | 112.22 | 4.50 | 112.54 |
| LL-3 | 3.95 | 98.87 | 1.09 | 109.45 | 4.61 | 115.36 |
| LL-4 | 3.65 | 91.30 | 1.02 | 102.40 | 4.72 | 117.88 |
| LL-5 | 3.54 | 88.43 | 1.05 | 104.52 | 4.11 | 102.69 |
| LL-6 | 3.74 | 93.45 | 1.06 | 106.39 | 4.28 | 106.88 |
| L1 | 9.54 | 95.42 | 2.24 | 89.58 | 9.08 | 90.84 |
| L2 | 9.06 | 90.60 | 2.42 | 96.74 | 10.16 | 101.58 |
| L3 | 9.25 | 92.46 | 2.36 | 94.44 | 8.75 | 87.49 |
| L4 | 8.76 | 87.62 | 2.30 | 91.86 | 8.87 | 88.66 |
| L5 | 9.64 | 96.39 | 2.14 | 85.65 | 9.53 | 95.28 |
| L6 | 8.92 | 89.17 | 2.25 | 89.86 | 8.87 | 88.65 |
| M1 | 88.30 | 88.30 | 22.53 | 90.14 | 91.23 | 91.23 |
| M2 | 90.73 | 90.73 | 24.49 | 97.97 | 102.75 | 102.75 |
| M3 | 86.16 | 86.16 | 21.93 | 87.74 | 92.52 | 92.52 |
| M4 | 94.10 | 94.10 | 23.78 | 95.12 | 95.70 | 95.70 |
| M5 | 88.40 | 88.40 | 21.64 | 86.56 | 92.44 | 92.44 |
| M6 | 103.25 | 103.25 | 23.84 | 95.36 | 95.95 | 95.95 |
| H1 | 1670.62 | 104.41 | 378.80 | 94.70 | 1478.05 | 92.38 |
| H2 | 1469.98 | 91.87 | 395.00 | 98.75 | 1801.37 | 112.59 |
| H3 | 1437.41 | 89.84 | 418.84 | 104.71 | 1640.87 | 102.55 |
| H4 | 1527.17 | 95.45 | 410.96 | 102.74 | 1574.84 | 98.43 |
| H5 | 1433.23 | 89.58 | 411.71 | 102.93 | 1561.91 | 97.62 |
| H6 | 1402.76 | 87.67 | 443.84 | 110.96 | 1707.51 | 106.72 |