

Table 2. Accuracy of melt redox compositions.

| | BAS-2 | | $n = 1$ | $n = 10$ | $n = 50$ | $n = 1$ | $n = 10$ | $n = 50$ |
|-------------------------------------|-------|--------|---------|----------|----------|---------|----------|----------|
| Beam/order size ratio* | n/a | | 0.1 | 0.1 | 0.1 | 950 | 950 | 950 |
| SiO ₂ | 49.73 | (0.35) | 100.00 | 20.00 | 45.00 | 50.88 | 49.95 | 49.96 |
| Al ₂ O ₃ | 15.51 | (0.19) | 0.00 | 28.00 | 13.00 | 14.56 | 16.00 | 16.00 |
| TiO ₂ | 1.55 | (0.03) | 0.00 | 0.00 | 0.00 | 1.92 | 2.03 | 2.03 |
| FeO | 8.51 | (0.43) | 0.00 | 10.00 | 15.60 | 8.00 | 9.00 | 8.97 |
| Fe ₂ O ₃ | 1.29 | (0.03) | 0.00 | 0.00 | 0.00 | 1.44 | 2.02 | 2.00 |
| MgO | 7.10 | (0.08) | 0.00 | 32.00 | 15.00 | 9.60 | 8.00 | 8.02 |
| CaO | 11.48 | (0.07) | 0.00 | 10.00 | 6.00 | 10.40 | 10.01 | 10.00 |
| Na ₂ O | 2.66 | (0.07) | 0.00 | 0.00 | 5.40 | 3.20 | 2.99 | 3.02 |
| Total | 97.83 | | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Fe ₂ O ₃ /FeO | 0.152 | | | 0.000 | 0.000 | 0.180 | 0.224 | 0.223 |

*Here order means the scale of the composition variation, which for a glass would be the scale of long- or short-range ordering.