|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **C (n=7)** | | | **D (n=6)** | | | **F (n=5)** | | | **G (n=40)** | | | **J (n=14)** | | |
| **Element** | *M± σ* | | | *M± σ* | | | *M± σ* | | | *M± σ* | | | *M± σ* | | |
| **Na %** | 0.6 | ± | 0.08 | 0.719 | ± | 0.065 | 1.27 | ± | 0.04 | 0.584 | ± | 0.161 | 0.361 | ± | 0.073 |
| **Al %** | 9.91 | ± | 0.806 | 11.0 | ± | 0.6 | 9.83 | ± | 0.27 | 8.82 | ± | 0.73 | 9.18 | ± | 0.347 |
| **K %** | 2.91 | ± | 0.151 | 3.73 | ± | 0.38 | 2.79 | ± | 0.28 | 2.79 | ± | 0.4 | 2.64 | ± | 0.367 |
| **Ca %** | 4.85 | ± | 1.17 | 3.29 | ± | 1.00 | 2.1 | ± | 0.15 | 7.01 | ± | 2.06 | 3.21 | ± | 1.31 |
| **Sc** | 20.3 | ± | 1.29 | 19.2 | ± | 0.7 | 21.1 | ± | 0.6 | 18.7 | ± | 2 | 16.3 | ± | 1.3 |
| **Ti %** | 0.47 | ± | 0.042 | 0.518 | ± | 0.051 | 0.527 | ± | 0.044 | 0.480 | ± | 0.071 | 0.495 | ± | 0.023 |
| **V** | 146 | ± | 8.81 | 150 | ± | 10 | 157 | ± | 12 | 120 | ± | 21 | 127 | ± | 13.5 |
| **Cr** | 338 | ± | 23.8 | 153 | ± | 13 | 124 | ± | 2 | 240 | ± | 41 | 118 | ± | 8.01 |
| **Mn** | 887 | ± | 56.6 | 713 | ± | 38 | 656 | ± | 21 | 887 | ± | 118 | 361 | ± | 54.8 |
| **Fe %** | 6.23 | ± | 0.428 | 5.64 | ± | 0.23 | 5.78 | ± | 0.11 | 4.89 | ± | 0.58 | 4.22 | ± | 0.419 |
| **Co** | 38 | ± | 2.61 | 25.6 | ± | 2.2 | 22.3 | ± | 0.5 | 25.6 | ± | 4 | 16.2 | ± | 2.7 |
| **Ni** | 365 | ± | 45.7 | 83.3 | ± | 11.0 | 65.3 | ± | 12.1 | 132 | ± | 38 | 56.4 | ± | 14.4 |
| **Zn** | 131 | ± | 14.7 | 133 | ± | 11 | 91.9 | ± | 3.8 | 103 | ± | 14 | 107 | ± | 36.7 |
| **As** | 32.1 | ± | 15.6 | 27.3 | ± | 7.3 | 19.2 | ± | 6.6 | 37.6 | ± | 23.4 | 12.2 | ± | 4.74 |
| **Rb** | 157 | ± | 12.1 | 170 | ± | 15 | 132 | ± | 3 | 142 | ± | 17 | 158 | ± | 8 |
| **Sr** | 237 | ± | 99 | 198 | ± | 29 | 182 | ± | 43 | 253 | ± | 106 | 199 | ± | 113 |
| **Zr** | 140 | ± | 51.7 | 120 | ± | 21 | 149 | ± | 10 | 129 | ± | 25 | 152 | ± | 21.2 |
| **Sb** | 2.49 | ± | 0.189 | 3.16 | ± | 0.55 | 1.87 | ± | 0.03 | 2.76 | ± | 2.58 | 1.16 | ± | 0.132 |
| **Cs** | 10.4 | ± | 0.884 | 12.6 | ± | 0.8 | 5.84 | ± | 0.12 | 23.8 | ± | 12.4 | 10.3 | ± | 0.941 |
| **Ba** | 570 | ± | 118 | 707 | ± | 112 | 608 | ± | 20 | 531 | ± | 100 | 306 | ± | 40.0 |
| **La** | 55.2 | ± | 2.89 | 52.1 | ± | 3.0 | 64.3 | ± | 1.3 | 37.4 | ± | 4.5 | 36.6 | ± | 2.55 |
| **Ce** | 115 | ± | 7.59 | 106.6 | ± | 6.0 | 131 | ± | 3 | 76.2 | ± | 10.1 | 74.5 | ± | 4.13 |
| **Nd** | 50 | ± | 5.15 | 46.0 | ± | 5.0 | 57.3 | ± | 3.2 | 32.5 | ± | 6.4 | 36.5 | ± | 11.2 |
| **Sm** | 10.3 | ± | 0.556 | 9.43 | ± | 0.45 | 11.6 | ± | 0.5 | 6.62 | ± | 0.91 | 6.04 | ± | 0.429 |
| **Eu** | 2 | ± | 0.137 | 1.82 | ± | 0.11 | 2.3 | ± | 0.06 | 1.36 | ± | 0.19 | 1.12 | ± | 0.099 |
| **Tb** | 1.52 | ± | 0.209 | 1.23 | ± | 0.14 | 2.44 | ± | 0.28 | 0.934 | ± | 0.284 | 0.882 | ± | 0.245 |
| **Dy** | 7.5 | ± | 0.749 | 6.74 | ± | 0.82 | 8.37 | ± | 0.27 | 4.9 | ± | 0.98 | 4.43 | ± | 0.292 |
| **Yb** | 3.78 | ± | 0.165 | 3.51 | ± | 0.06 | 3.92 | ± | 0.21 | 2.93 | ± | 0.44 | 3.08 | ± | 0.224 |
| **Lu** | 0.5 | ± | 0.035 | 0.476 | ± | 0.024 | 0.591 | ± | 0.01 | 0.415 | ± | 0.057 | 0.437 | ± | 0.02 |
| **Hf** | 3.92 | ± | 0.459 | 4.50 | ± | 0.38 | 5.61 | ± | 0.05 | 5 | ± | 0.8 | 6.32 | ± | 0.62 |
| **Ta** | 1.3 | ± | 0.084 | 1.17 | ± | 0.07 | 1.57 | ± | 0.03 | 1.17 | ± | 0.14 | 1.38 | ± | 0.074 |
| **Th** | 19.4 | ± | 1.14 | 17.4 | ± | 1.0 | 21.4 | ± | 0.8 | 14.2 | ± | 1.8 | 14.9 | ± | 1 |
| **U** | 3.99 | ± | 0.741 | 4.10 | ± | 0.54 | 4.09 | ± | 0.54 | 3.28 | ± | 0.82 | 3.67 | ± | 0.407 |

Table 4b. Average elemental values for selected compositional groups in combined dataset analyzed at MURR: group C (non-local red-gloss ware, ESB), group D (various Late Roman wares), group F (non-local gray-fabric jars, MWJ-C), group G (ESC, AMLC, and other Late Roman wares) and group J (non-local red-slipped ware, PRS/LRC).