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| Image00002.jpg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |  |
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|  |  | Image00003.jpg | | | | | | | | | | | | | | | | | | | | | | | | | |  | Image00004.jpg | | | | | | | | | | | | | | | | |  | Image00005.jpg | | | | | | | | | | | | |  |  |  |
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|  |  | Image00006.jpg | | | | | | | | | | | | | | | | | | | | | | | | | |  | Image | | | | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Image00007.jpg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |  |
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|  |  | Image00008.jpg | | | | | | | | | | | | | | | | | | | | | | | | | |  | Image00009.jpg | | | | | | | | | | | | | | | |  |  |  | | | | | | | | | | | | |  |  |  |
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|  |  | Image00010.jpg | | | | | | | | | | | | | | | | | | | | | | | | | |  | O K\_ROI (56) | | | | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  | Image00011.jpg | | | | | | | | | | | | | | | | | | | | | | | | | |  | AlK\_ROI (55) | | | | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  | Image00012.jpg | | | | | | | | | | | | | | | | | | | | | | | | | |  | SiK\_ROI (112) | | | | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  | Image00013.jpg | | | | | | | | | | | | | | | | | | | | | | | | | |  | CaK\_ROI (46) | | | | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  | Image00014.jpg | | | | | | | | | | | | | | | | | | | | | | | | | |  | CuK\_ROI (59) | | | | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  | **EDAX TEAM** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  | | | | | | | | | | | | | *Page* | | | | | | *5* | |  |  |  |
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|  | kV: | | |  | 20 |  |  | Mag: | | | | 46 | | | Takeoff: | | | | |  | 36 | | Live Time(s): | | | | | | | |  | 273.6 | |  | Amp Time(µs): | | | | | | |  | 1.92 | | | | Resolution:(eV) | | | | | | | |  |  | 128 | | | | | |
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|  |  |  | **eZAF Smart Quant Results** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  | O K | | | 42.56 | | | | 59.73 | | | 5064.10 | | | | | | 8.69 | | | | | 0.1070 | | | | | 1.0725 | | | | 0.2344 | | | | | | | | | 1.0000 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | AlK | | | 15.57 | | | | 12.96 | | | 6215.10 | | | | | | 4.68 | | | | | 0.0965 | | | | | 0.9567 | | | | 0.6417 | | | | | | | | | 1.0090 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | SiK | | | 21.53 | | | | 17.21 | | | 8669.80 | | | | | | 4.77 | | | | | 0.1336 | | | | | 0.9780 | | | | 0.6321 | | | | | | | | | 1.0037 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CaK | | | 14.10 | | | | 7.90 | | | 3855.00 | | | | | | 1.96 | | | | | 0.1234 | | | | | 0.9246 | | | | 0.9352 | | | | | | | | | 1.0116 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CuK | | | 6.23 | | | | 2.20 | | | 637.00 | | | | | | 2.52 | | | | | 0.0527 | | | | | 0.7905 | | | | 1.0013 | | | | | | | | | 1.0703 | | | | |  | |  |  |  |  |  |  |  |
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|  |  | **EDAX TEAM** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  | | | | | | | | | | | | | *Page* | | | | | | *6* | |  |  |  |
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|  | kV: | | |  | 20 |  |  | Mag: | | | | 46 | | | Takeoff: | | | | |  | 36 | | Live Time(s): | | | | | | | |  | 16.6 | |  | Amp Time(µs): | | | | | | |  | 1.92 | | | | Resolution:(eV) | | | | | | | |  |  | 128 | | | | | |
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|  |  |  | **eZAF Smart Quant Results** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  | O K | | | 64.60 | | | | 78.69 | | | 3348.10 | | | | | | 7.77 | | | | | 0.3136 | | | | | 1.0456 | | | | 0.4642 | | | | | | | | | 1.0000 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | AlK | | | 6.75 | | | | 4.88 | | | 549.00 | | | | | | 7.48 | | | | | 0.0378 | | | | | 0.9315 | | | | 0.5954 | | | | | | | | | 1.0085 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | SiK | | | 19.04 | | | | 13.21 | | | 1776.40 | | | | | | 5.28 | | | | | 0.1213 | | | | | 0.9520 | | | | 0.6681 | | | | | | | | | 1.0020 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CaK | | | 1.54 | | | | 0.75 | | | 95.20 | | | | | | 21.37 | | | | | 0.0135 | | | | | 0.8993 | | | | 0.9519 | | | | | | | | | 1.0248 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CuK | | | 8.07 | | | | 2.47 | | | 183.80 | | | | | | 9.75 | | | | | 0.0675 | | | | | 0.7679 | | | | 1.0106 | | | | | | | | | 1.0775 | | | | |  | |  |  |  |  |  |  |  |
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|  |  | **EDAX TEAM** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  | | | | | | | | | | | | | *Page* | | | | | | *7* | |  |  |  |
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|  | kV: | | |  | 20 |  |  | Mag: | | | | 46 | | | Takeoff: | | | | |  | 36 | | Live Time(s): | | | | | | | |  | 4.2 | |  | Amp Time(µs): | | | | | | |  | 1.92 | | | | Resolution:(eV) | | | | | | | |  |  | 128 | | | | | |
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|  |  |  | **eZAF Smart Quant Results** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  | O K | | | 64.87 | | | | 77.56 | | | 574.60 | | | | | | 13.69 | | | | | 0.2732 | | | | | 1.0403 | | | | 0.4047 | | | | | | | | | 1.0000 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | AlK | | | 15.66 | | | | 11.10 | | | 268.70 | | | | | | 11.29 | | | | | 0.0938 | | | | | 0.9261 | | | | 0.6432 | | | | | | | | | 1.0059 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | SiK | | | 12.17 | | | | 8.29 | | | 210.80 | | | | | | 9.74 | | | | | 0.0731 | | | | | 0.9465 | | | | 0.6329 | | | | | | | | | 1.0026 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CaK | | | 4.82 | | | | 2.30 | | | 58.40 | | | | | | 36.71 | | | | | 0.0420 | | | | | 0.8937 | | | | 0.9595 | | | | | | | | | 1.0164 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CuK | | | 2.47 | | | | 0.74 | | | 11.50 | | | | | | 70.34 | | | | | 0.0215 | | | | | 0.7625 | | | | 1.0097 | | | | | | | | | 1.1285 | | | | |  | |  |  |  |  |  |  |  |
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|  |  | **EDAX TEAM** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  | | | | | | | | | | | | | *Page* | | | | | | *8* | |  |  |  |
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|  | kV: | | |  | 20 |  |  | Mag: | | | | 46 | | | Takeoff: | | | | |  | 36 | | Live Time(s): | | | | | | | |  | 59.7 | |  | Amp Time(µs): | | | | | | |  | 1.92 | | | | Resolution:(eV) | | | | | | | |  |  | 128 | | | | | |
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|  |  |  | **eZAF Smart Quant Results** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  | Element | | | Weight % | | | | Atomic % | | | Net Int. | | | | | | Error % | | | | | Kratio | | | | | Z | | | | A | | | | | | | | | F | | | |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | O K | | | 34.34 | | | | 47.31 | | | 2161.90 | | | | | | 8.25 | | | | | 0.1190 | | | | | 1.0760 | | | | 0.3220 | | | | | | | | | 1.0000 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | AlK | | | 58.65 | | | | 47.91 | | | 11095.20 | | | | | | 3.14 | | | | | 0.4486 | | | | | 0.9586 | | | | 0.7966 | | | | | | | | | 1.0013 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | SiK | | | 4.49 | | | | 3.52 | | | 486.90 | | | | | | 9.39 | | | | | 0.0195 | | | | | 0.9798 | | | | 0.4441 | | | | | | | | | 1.0010 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CaK | | | 1.89 | | | | 1.04 | | | 194.20 | | | | | | 5.91 | | | | | 0.0162 | | | | | 0.9253 | | | | 0.9136 | | | | | | | | | 1.0128 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CuK | | | 0.63 | | | | 0.22 | | | 26.90 | | | | | | 30.98 | | | | | 0.0058 | | | | | 0.7899 | | | | 1.0067 | | | | | | | | | 1.1535 | | | | |  | |  |  |  |  |  |  |  |
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|  |  | **EDAX TEAM** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  | | | | | | | | | | | | | *Page* | | | | | | *9* | |  |  |  |
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|  | kV: | | |  | 20 |  |  | Mag: | | | | 46 | | | Takeoff: | | | | |  | 36 | | Live Time(s): | | | | | | | |  | 118 | |  | Amp Time(µs): | | | | | | |  | 1.92 | | | | Resolution:(eV) | | | | | | | |  |  | 128 | | | | | |
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|  |  |  | **eZAF Smart Quant Results** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  | O K | | | 47.16 | | | | 63.42 | | | 7827.40 | | | | | | 8.90 | | | | | 0.1062 | | | | | 1.0586 | | | | 0.2127 | | | | | | | | | 1.0000 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | AlK | | | 9.56 | | | | 7.63 | | | 6246.00 | | | | | | 4.34 | | | | | 0.0622 | | | | | 0.9437 | | | | 0.6803 | | | | | | | | | 1.0135 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | SiK | | | 25.07 | | | | 19.20 | | | 17397.10 | | | | | | 4.00 | | | | | 0.1721 | | | | | 0.9646 | | | | 0.7083 | | | | | | | | | 1.0047 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CaK | | | 18.09 | | | | 9.71 | | | 7635.80 | | | | | | 1.83 | | | | | 0.1569 | | | | | 0.9114 | | | | 0.9452 | | | | | | | | | 1.0067 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CuK | | | 0.12 | | | | 0.04 | | | 20.00 | | | | | | 33.32 | | | | | 0.0011 | | | | | 0.7786 | | | | 1.0003 | | | | | | | | | 1.1081 | | | | |  | |  |  |  |  |  |  |  |
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|  |  | **EDAX TEAM** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  | | | | | | | | | | | | | *Page* | | | | | | *10* | |  |  |  |
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|  | kV: | | |  | 20 |  |  | Mag: | | | | 46 | | | Takeoff: | | | | |  | 36 | | Live Time(s): | | | | | | | |  | 14.3 | |  | Amp Time(µs): | | | | | | |  | 1.92 | | | | Resolution:(eV) | | | | | | | |  |  | 128 | | | | | |
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|  |  |  | **eZAF Smart Quant Results** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  | Element | | | Weight % | | | | Atomic % | | | Net Int. | | | | | | Error % | | | | | Kratio | | | | | Z | | | | A | | | | | | | | | F | | | |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | O K | | | 2.33 | | | | 8.55 | | | 533.70 | | | | | | 9.80 | | | | | 0.0108 | | | | | 1.2989 | | | | 0.3563 | | | | | | | | | 1.0000 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | AlK | | | 0.76 | | | | 1.65 | | | 154.80 | | | | | | 26.55 | | | | | 0.0023 | | | | | 1.1672 | | | | 0.2593 | | | | | | | | | 1.0020 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | SiK | | | 0.03 | | | | 0.07 | | | 9.60 | | | | | | 99.99 | | | | | 0.0001 | | | | | 1.1948 | | | | 0.3653 | | | | | | | | | 1.0037 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CaK | | | 0.19 | | | | 0.28 | | | 67.10 | | | | | | 35.43 | | | | | 0.0021 | | | | | 1.1382 | | | | 0.8785 | | | | | | | | | 1.0613 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CuK | | | 96.69 | | | | 89.44 | | | 12100.80 | | | | | | 1.91 | | | | | 0.9576 | | | | | 0.9897 | | | | 1.0003 | | | | | | | | | 1.0004 | | | | |  | |  |  |  |  |  |  |  |
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|  |  | **EDAX TEAM** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  | | | | | | | | | | | | | *Page* | | | | | | *11* | |  |  |  |
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|  | kV: | | |  | 20 |  |  | Mag: | | | | 46 | | | Takeoff: | | | | |  | 36 | | Live Time(s): | | | | | | | |  | 29.7 | |  | Amp Time(µs): | | | | | | |  | 1.92 | | | | Resolution:(eV) | | | | | | | |  |  | 128 | | | | | |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **Phase:** | | | |  |  |  | **AlK/SiK/O K/CaK** | | | | | | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  | **eZAF Smart Quant Results** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  | Element | | | Weight % | | | | Atomic % | | | Net Int. | | | | | | Error % | | | | | Kratio | | | | | Z | | | | A | | | | | | | | | F | | | |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | O K | | | 41.43 | | | | 57.20 | | | 4374.20 | | | | | | 9.06 | | | | | 0.0962 | | | | | 1.0665 | | | | 0.2178 | | | | | | | | | 1.0000 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | AlK | | | 21.11 | | | | 17.28 | | | 8843.00 | | | | | | 4.18 | | | | | 0.1429 | | | | | 0.9508 | | | | 0.7055 | | | | | | | | | 1.0092 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | SiK | | | 21.18 | | | | 16.65 | | | 8111.90 | | | | | | 4.95 | | | | | 0.1301 | | | | | 0.9719 | | | | 0.6300 | | | | | | | | | 1.0039 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CaK | | | 15.77 | | | | 8.69 | | | 4096.60 | | | | | | 2.25 | | | | | 0.1365 | | | | | 0.9184 | | | | 0.9355 | | | | | | | | | 1.0074 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CuK | | | 0.50 | | | | 0.18 | | | 50.90 | | | | | | 26.83 | | | | | 0.0044 | | | | | 0.7845 | | | | 1.0006 | | | | | | | | | 1.1085 | | | | |  | |  |  |  |  |  |  |  |
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|  |  | **EDAX TEAM** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  | | | | | | | | | | | | | *Page* | | | | | | *12* | |  |  |  |
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|  | kV: | | |  | 20 |  |  | Mag: | | | | 46 | | | Takeoff: | | | | |  | 36 | | Live Time(s): | | | | | | | |  | 30.9 | |  | Amp Time(µs): | | | | | | |  | 1.92 | | | | Resolution:(eV) | | | | | | | |  |  | 128 | | | | | |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **Phase:** | | | |  |  |  | **O K/AlK/SiK** | | | | | | | | | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  | **eZAF Smart Quant Results** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  | Element | | | Weight % | | | | Atomic % | | | Net Int. | | | | | | Error % | | | | | Kratio | | | | | Z | | | | A | | | | | | | | | F | | | |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | O K | | | 85.15 | | | | 91.32 | | | 3080.40 | | | | | | 5.82 | | | | | 0.5500 | | | | | 1.0159 | | | | 0.6358 | | | | | | | | | 1.0000 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | AlK | | | 7.10 | | | | 4.52 | | | 300.20 | | | | | | 7.06 | | | | | 0.0394 | | | | | 0.9031 | | | | 0.6112 | | | | | | | | | 1.0043 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | SiK | | | 5.09 | | | | 3.11 | | | 246.30 | | | | | | 5.95 | | | | | 0.0321 | | | | | 0.9228 | | | | 0.6805 | | | | | | | | | 1.0030 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CaK | | | 2.15 | | | | 0.92 | | | 70.20 | | | | | | 10.56 | | | | | 0.0190 | | | | | 0.8705 | | | | 0.9906 | | | | | | | | | 1.0229 | | | | |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | CuK | | | 0.51 | | | | 0.14 | | | 6.70 | | | | | | 61.07 | | | | | 0.0047 | | | | | 0.7419 | | | | 1.0146 | | | | | | | | | 1.2372 | | | | |  | |  |  |  |  |  |  |  |
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