

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U |
|----|---|----------|-----------|-----------|-------|--------------|----------------|------|--------------------------|------------|---------------|------------|---------------|------------|----------------|---------------|------------|----------------|------------|----------------|---|
| 1 | Table S3. U-Pb isotope ratios and trace element concentrations by LA-ICPMS: standard data | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | |
| 4 | Composition | | | | | | | | Corrected isotope ratios | | | | | | | | | | | | |
| 5 | Analysis | U ppm | Th ppm | Pb ppm | Th/U | 206Pb cps | 206Pb 204Pb | ±1s | 208Pb 232Th | ±2s (%) | 207Pb 235U | ±2s (%) | 206Pb 238U | ±2s (%) | error corr. | 238U 206Pb | ±2s (%) | 207Pb 206Pb | ±2s (%) | 208Pb 232Th | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | Primary standards | | | | | | | | | | | | | | | | | | | | |
| 9 | PL_141 | 957 | 116 | 56.5 | 0.121 | 64445 | 5152 | 33 | 0.01743 | 5.717 | 0.3916 | 5.4 | 0.05406 | 3.5 | 0.63 | 18.50 | 3.5 | 0.05253 | 4.1 | 349 | |
| 10 | PL_142 | 929 | 115 | 54.9 | 0.124 | 63176 | 2148 | 29 | 0.01880 | 6.235 | 0.3975 | 4.9 | 0.05383 | 3.6 | 0.73 | 18.58 | 3.6 | 0.05355 | 3.2 | 376 | |
| 11 | PL_143 | 920 | 117 | 53.8 | 0.127 | 63363 | 63363 | 966 | 0.01573 | 5.89 | 0.4041 | 5.3 | 0.05355 | 3.3 | 0.61 | 18.67 | 3.3 | 0.05473 | 4.1 | 315 | |
| 12 | PL_151 | 874 | 77.5 | 50.6 | 0.089 | 53035 | 4161 | 39 | 0.01618 | 10.37 | 0.3916 | 5.2 | 0.05374 | 3.3 | 0.61 | 18.61 | 3.3 | 0.05285 | 4.0 | 324 | |
| 13 | PL_152 | 899 | 79.5 | 52.4 | 0.088 | 55587 | 2181 | 23 | 0.01678 | 7.349 | 0.3889 | 6.0 | 0.05408 | 3.3 | 0.54 | 18.49 | 3.3 | 0.05216 | 5.0 | 336 | |
| 14 | PL_144 | 983 | 115 | 57.0 | 0.117 | 62469 | 6068 | 83 | 0.01699 | 10.34 | 0.3924 | 4.7 | 0.05315 | 2.7 | 0.55 | 18.81 | 2.7 | 0.05355 | 3.8 | 341 | |
| 15 | PL_145 | 947 | 114 | 54.3 | 0.120 | 61001 | 61001 | 767 | 0.01538 | 9.501 | 0.3827 | 5.5 | 0.05267 | 2.8 | 0.49 | 18.99 | 2.8 | 0.05270 | 4.8 | 309 | |
| 16 | PL_161 | 754 | 72.4 | 43.8 | 0.096 | 45820 | 45820 | 1402 | 0.01626 | 11.03 | 0.3901 | 6.2 | 0.05399 | 3.7 | 0.59 | 18.52 | 3.7 | 0.05241 | 4.9 | 326 | |
| 17 | PL_162 | 759 | 74.3 | 43.2 | 0.098 | 45362 | 1142 | 36 | 0.01680 | 13.12 | 0.3966 | 4.5 | 0.05267 | 4.0 | 0.88 | 18.99 | 4.0 | 0.05461 | 2.0 | 337 | |
| 18 | PL_146 | 947 | 117 | 56.2 | 0.124 | 63942 | 63942 | 876 | 0.01648 | 8.482 | 0.3941 | 5.2 | 0.05440 | 3.8 | 0.71 | 18.38 | 3.8 | 0.05254 | 3.6 | 330 | |
| 19 | PL_147 | 932 | 113 | 56.0 | 0.121 | 63908 | 20006 | 333 | 0.01616 | 7.111 | 0.3874 | 5.3 | 0.05530 | 3.6 | 0.67 | 18.08 | 3.6 | 0.05082 | 3.9 | 324 | |
| 20 | PL_153 | 819 | 71.6 | 47.6 | 0.087 | 49971 | 5365 | 47 | 0.01773 | 10.62 | 0.4081 | 6.4 | 0.05377 | 4.3 | 0.66 | 18.60 | 4.3 | 0.05505 | 4.7 | 355 | |
| 21 | PL_154 | 938 | 83.1 | 54.2 | 0.089 | 56211 | 1593 | 16 | 0.01875 | 7.272 | 0.4106 | 4.5 | 0.05327 | 2.8 | 0.61 | 18.77 | 2.8 | 0.05589 | 3.5 | 375 | |
| 22 | PL_155 | 875 | 75.1 | 50.4 | 0.086 | 53512 | 27291 | 462 | 0.01798 | 10.4 | 0.3950 | 4.8 | 0.05338 | 2.7 | 0.54 | 18.73 | 2.7 | 0.05367 | 3.9 | 360 | |
| 23 | PL_156 | 952 | 86.3 | 55.2 | 0.091 | 57234 | 7297 | 42 | 0.01629 | 10.49 | 0.3965 | 4.7 | 0.05368 | 3.7 | 0.78 | 18.63 | 3.7 | 0.05357 | 2.8 | 327 | |
| 24 | PL_163 | 743 | 72.8 | 43.1 | 0.098 | 47255 | 7132 | 224 | 0.01654 | 12.23 | 0.3965 | 5.0 | 0.05386 | 3.2 | 0.62 | 18.57 | 3.2 | 0.05208 | 3.8 | 332 | |
| 25 | PL_164 | 717 | 70.3 | 42.4 | 0.098 | 44948 | 890 | 29 | 0.01858 | 7.905 | 0.4008 | 5.1 | 0.05469 | 3.3 | 0.64 | 18.29 | 3.3 | 0.05315 | 3.9 | 372 | |
| 26 | PL_165 | 733 | 70.9 | 42.4 | 0.097 | 45100 | 2788 | 93 | 0.01605 | 8.81 | 0.3842 | 5.8 | 0.05383 | 3.9 | 0.66 | 18.58 | 3.9 | 0.05176 | 4.3 | 322 | |
| 27 | PL_166 | 717 | 68.8 | 41.5 | 0.096 | 45880 | 15599 | 590 | 0.01455 | 8.434 | 0.3955 | 6.2 | 0.05383 | 3.3 | 0.52 | 18.58 | 3.3 | 0.05328 | 5.3 | 292 | |
| 28 | PL_157 | 922 | 82.4 | 53.1 | 0.089 | 55487 | 6289 | 55 | 0.01780 | 9.885 | 0.3846 | 5.5 | 0.05335 | 3.7 | 0.65 | 18.74 | 3.7 | 0.05229 | 4.1 | 357 | |
| 29 | PL_158 | 868 | 75.1 | 51.3 | 0.09 | 53859 | 53859 | 763 | 0.01754 | 9.813 | 0.4087 | 4.9 | 0.05473 | 3.2 | 0.64 | 18.27 | 3.2 | 0.05416 | 3.7 | 351 | |
| 30 | PL_167 | 785 | 75.0 | 44.7 | 0.096 | 48118 | 3702 | 90 | 0.01744 | 6.593 | 0.3905 | 5.6 | 0.05276 | 2.5 | 0.42 | 18.96 | 2.5 | 0.05368 | 5.0 | 349 | |
| 31 | PL_168 | 734 | 70.4 | 43.0 | 0.096 | 45268 | 8019 | 207 | 0.01591 | 11.16 | 0.4010 | 4.6 | 0.05446 | 3.5 | 0.76 | 18.36 | 3.5 | 0.05340 | 2.9 | 319 | |
| 32 | | | | | | | | | | | | | | | | | | | | | |
| 33 | Secondary standards | | | | | | | | | | | | | | | | | | | | |
| 34 | 91500_201 | 55.7 | 15.8 | 11.2 | 0.283 | 11554 | 11554 | 234 | 0.05152 | 13.37 | 1.8712 | 5.1 | 0.17485 | 3.5 | 0.68 | 5.72 | 3.5 | 0.07762 | 3.6 | 1015 | |
| 35 | 91500_202 | 54.8 | 15.6 | 11.3 | 0.285 | 11721 | 15768 | 261 | 0.05433 | 12.7 | 2.0034 | 8.5 | 0.17995 | 3.1 | 0.35 | 5.56 | 3.1 | 0.08074 | 8.0 | 1069 | |
| 36 | 91500_203 | 56.9 | 16.0 | 11.6 | 0.281 | 11797 | 11797 | 106 | 0.05274 | 10.9 | 1.8903 | 7.5 | 0.17864 | 5.0 | 0.66 | 5.60 | 5.0 | 0.07675 | 5.6 | 1039 | |
| 37 | 91500_204 | 59.2 | 16.0 | 12.2 | 0.270 | 11910 | 2700 | 57 | 0.05676 | 12.91 | 1.7944 | 10.8 | 0.18098 | 4.8 | 0.44 | 5.53 | 4.8 | 0.07191 | 9.6 | 1116 | |
| 38 | 91500_206 | 54.8 | 16.1 | 11.3 | 0.294 | 11584 | 11584 | 186 | 0.05269 | 11.43 | 1.7755 | 8.3 | 0.18109 | 3.6 | 0.42 | 5.52 | 3.6 | 0.07111 | 7.5 | 1038 | |
| 39 | 91500_207 | 54.7 | 15.8 | 11.8 | 0.288 | 12176 | 388 | 7 | 0.06257 | 11.25 | 1.8894 | 10.1 | 0.18629 | 4.9 | 0.48 | 5.37 | 4.9 | 0.07356 | 8.8 | 1227 | |
| 40 | 91500_208 | 57.8 | 16.3 | 12.0 | 0.282 | 12117 | 824 | 16 | 0.06059 | 10.52 | 1.9250 | 5.3 | 0.18019 | 3.6 | 0.67 | 5.55 | 3.6 | 0.07748 | 3.9 | 1189 | |
| 41 | FC1_191 | 199 | 88.8 | 43.6 | 0.447 | 42058 | 3064 | 57 | 0.05534 | 3.711 | 1.9351 | 4.1 | 0.18225 | 3.2 | 0.74 | 5.49 | 3.2 | 0 | 2.7 | 1089 | |
| 42 | FC1_192 | 183 | 72.8 | 39.9 | 0.398 | 38552 | 19662 | 379 | 0.05218 | 4.834 | 1.9631 | 4.4 | 0.18428 | 2.5 | 0.54 | 5.43 | 2.5 | 0.07726 | 3.6 | 1028 | |
| 43 | FC1_193 | 198 | 80.3 | 43.8 | 0.405 | 42371 | 2658 | 50 | 0.05427 | 5.059 | 1.9910 | 4.9 | 0.18574 | 3.0 | 0.59 | 5.38 | 3.0 | 0.07774 | 3.9 | 1068 | |
| 44 | FC1_194 | 286 | 189 | 65.0 | 0.663 | 53949 | 12228 | 218 | 0.05452 | 6.511 | 1.8131 | 4.1 | 0.17873 | 3.1 | 0.74 | 5.60 | 3.1 | 0.07357 | 2.6 | 1073 | |
| 45 | FC1_196 | 198 | 105 | 43.9 | 0.529 | 36715 | 948 | 13 | 0.05516 | 6 | 1.9069 | 5.8 | 0.18011 | 3.1 | 0.51 | 5.55 | 3.1 | 0.07679 | 4.9 | 1085 | |
| 46 | FC1_197 | 44.5 | 16.5 | 9.46 | 0.370 | 9101 | 1124 | 20 | 0.05880 | 8.406 | 1.8211 | 8.6 | 0.18081 | 3.5 | 0.39 | 5.53 | 3.5 | 0.07305 | 7.9 | 1155 | |
| 47 | FC1_198 | 49.4 | 19.3 | 10.4 | 0.390 | 10118 | 581 | 7 | 0.06152 | 8.58 | 1.7683 | 8.1 | 0.17655 | 3.0 | 0.36 | 5.66 | 3.0 | 0.07264 | 7.5 | 1207 | |
| 48 | Seiland_171 | 53.4 | 43.1 | 5.95 | 0.808 | 4927 | 609 | 14 | 0.02790 | 9.241 | 0.7602 | 12.9 | 0.08486 | 4.3 | 0.33 | 11.78 | 4.3 | 0.06497 | 12.2 | 556 | |
| 49 | Seiland_172 | 52.5 | 43.8 | 5.94 | 0.833 | 4754 | 97 | 1 | 0.02683 | 11.58 | 0.7018 | 12.1 | 0.08719 | 3.6 | 0.29 | 11.47 | 3.6 | 0.05838 | 11.5 | 535 | |

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| | V | W | X | Y | Z | AA | AB | AC | AD | AE | AF | AG | AH | AI | AJ | AK | AL | AM | AN |
|----|------------|---------|--------------|------|---------|--------------|------|---------|--------------|------|---------|-------|------|------|------|------|-------|-------|------|
| 1 | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | |
| 4 | Dates (Ma) | | | | | | | | | | | | | | | | | | |
| 5 | ±2s | ±2s-sys | <u>207Pb</u> | ±2s | ±2s-sys | <u>207Pb</u> | ±2s | ±2s-sys | <u>206Pb</u> | ±2s | ±2s-sys | disc. | ±2s | | | | | | |
| 6 | (Ma) | (Ma) | 206Pb | (Ma) | (Ma) | 235U | (Ma) | (Ma) | 238U | (Ma) | (Ma) | (%) | (%) | P | Ti | Y | Nb | La | Ce |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | 19.8 | 22.2 | 309 | 94.5 | 96.1 | 336 | 15.5 | 16.2 | 339 | 11.6 | 12.4 | -1.2 | 5.8 | 303 | 71.0 | 553 | 4.94 | 0 | 2.40 |
| 10 | 23.3 | 25.6 | 352 | 73.1 | 75.1 | 340 | 14.0 | 14.7 | 338 | 11.9 | 12.7 | 0.5 | 5.4 | 310 | 65.5 | 556 | 4.60 | 0 | 2.04 |
| 11 | 18.4 | 20.6 | 401 | 91.6 | 93.2 | 345 | 15.4 | 16.0 | 336 | 10.9 | 11.7 | 2.4 | 5.4 | 308 | 64.6 | 522 | 4.78 | 0 | 2.29 |
| 12 | 33.4 | 34.7 | 322 | 91.1 | 92.7 | 336 | 14.8 | 15.4 | 337 | 10.7 | 11.6 | -0.6 | 5.5 | 341 | 69.0 | 441 | 5.08 | 0 | 2.21 |
| 13 | 24.5 | 26.4 | 292 | 114 | 115 | 334 | 17.0 | 17.6 | 340 | 10.9 | 11.8 | -1.8 | 6.1 | 354 | 69.3 | 444 | 5.60 | 0 | 2.30 |
| 14 | 34.9 | 36.3 | 352 | 87.0 | 88.6 | 336 | 13.5 | 14.2 | 334 | 8.84 | 9.88 | 0.7 | 4.8 | 279 | 67.0 | 556 | 4.91 | | 2.37 |
| 15 | 29.1 | 30.5 | 316 | 109 | 110 | 329 | 15.6 | 16.2 | 331 | 9.09 | 10.1 | -0.6 | 5.5 | 313 | 68.6 | 562 | 4.21 | | 2.10 |
| 16 | 35.7 | 36.9 | 303 | 113 | 114 | 334 | 17.7 | 18.2 | 339 | 12.3 | 13.1 | -1.3 | 6.5 | 389 | 58.1 | 582 | 4.22 | 0.082 | 2.59 |
| 17 | 43.8 | 44.9 | 396 | 45.9 | 48.9 | 339 | 13.1 | 13.8 | 331 | 13.0 | 13.7 | 2.4 | 5.4 | 362 | 55.9 | 571 | 4.21 | 0.1 | 2.69 |
| 18 | 27.8 | 29.4 | 309 | 81.9 | 83.7 | 337 | 14.9 | 15.6 | 341 | 12.5 | 13.3 | -1.2 | 5.8 | 327 | 67.1 | 557 | 4.62 | | 2.40 |
| 19 | 22.9 | 24.7 | 232 | 90.5 | 92.1 | 333 | 15.2 | 15.8 | 347 | 12.3 | 13.1 | -4.4 | 6.0 | 319 | 67.4 | 540 | 4.94 | 0.0 | 2.44 |
| 20 | 37.4 | 38.8 | 414 | 106 | 107 | 348 | 18.8 | 19.4 | 338 | 14.2 | 14.8 | 2.8 | 6.7 | 327 | 66.3 | 416 | 4.77 | | 2.28 |
| 21 | 27.0 | 29.2 | 448 | 78.1 | 79.9 | 349 | 13.3 | 14.1 | 335 | 9.23 | 10.2 | 4.2 | 4.5 | 381 | 71.7 | 477 | 4.49 | 0.01 | 2.33 |
| 22 | 37.1 | 38.6 | 357 | 88.6 | 90.2 | 338 | 13.7 | 14.4 | 335 | 8.81 | 9.86 | 0.8 | 4.8 | 322 | 70.2 | 437 | 5.13 | | 2.32 |
| 23 | 34.0 | 35.3 | 353 | 63.9 | 66.1 | 339 | 13.4 | 14.2 | 337 | 12.2 | 12.9 | 0.6 | 5.3 | 341 | 73.6 | 467 | 5.81 | 0.0 | 2.61 |
| 24 | 40.2 | 41.3 | 289 | 87.2 | 88.9 | 332 | 14.1 | 14.8 | 338 | 10.5 | 11.4 | -1.9 | 5.4 | 380 | 62.2 | 568 | 3.91 | 0.0 | 2.53 |
| 25 | 29.1 | 31.0 | 335 | 87.5 | 89.1 | 342 | 14.8 | 15.5 | 343 | 11.1 | 12.0 | -0.3 | 5.4 | 388 | 62.3 | 548 | 3.66 | 0.07 | 2.16 |
| 26 | 28.1 | 29.6 | 275 | 98.2 | 99.7 | 330 | 16.4 | 17.0 | 338 | 13.0 | 13.7 | -2.4 | 6.4 | 385 | 49.6 | 545 | 3.81 | 0.465 | 2.72 |
| 27 | 24.4 | 25.8 | 341 | 119 | 121 | 338 | 17.9 | 18.4 | 338 | 10.8 | 11.7 | 0.1 | 6.2 | 364 | 54.2 | 570 | 3.99 | 0.056 | 2.24 |
| 28 | 34.9 | 36.3 | 298 | 94.5 | 96.1 | 330 | 15.6 | 16.2 | 335 | 11.9 | 12.7 | -1.4 | 6.0 | 346 | 72.7 | 455 | 5.90 | 0.020 | 2.29 |
| 29 | 34.2 | 35.6 | 378 | 83.3 | 85.0 | 348 | 14.4 | 15.1 | 344 | 10.7 | 11.6 | 1.3 | 5.1 | 333 | 67.8 | 446 | 4.96 | 0.0 | 2.34 |
| 30 | 22.8 | 24.7 | 358 | 113 | 115 | 335 | 15.9 | 16.5 | 331 | 7.99 | 9.08 | 1.0 | 5.3 | 375 | 57.5 | 589 | 4.29 | 0.053 | 2.71 |
| 31 | 35.3 | 36.4 | 346 | 65.7 | 67.8 | 342 | 13.3 | 14.0 | 342 | 11.8 | 12.6 | 0.1 | 5.2 | 395 | 56.7 | 560 | 3.71 | 0.057 | 2.83 |
| 32 | | | | | | | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | | | | | | | |
| 34 | 132 | 135 | 1137 | 72.5 | 74.1 | 1071 | 33.5 | 35.0 | 1039 | 33.8 | 36.1 | 3.0 | 4.4 | 60.1 | 4.06 | 60.6 | 0.532 | | 1.58 |
| 35 | 132 | 136 | 1215 | 156 | 157 | 1117 | 57.8 | 58.7 | 1067 | 30.3 | 33.0 | 4.5 | 5.6 | 47.6 | 4.11 | 59.0 | 0.589 | | 1.49 |
| 36 | 110 | 114 | 1115 | 111 | 112 | 1078 | 49.5 | 50.6 | 1060 | 48.5 | 50.2 | 1.7 | 6.4 | 28.0 | 4.23 | 62.9 | 0.443 | | 1.80 |
| 37 | 140 | 144 | 983 | 196 | 197 | 1043 | 70.3 | 71.0 | 1072 | 47.8 | 49.6 | -2.8 | 8.3 | 49.1 | 4.82 | 63.5 | 0.674 | | 1.98 |
| 38 | 116 | 119 | 961 | 153 | 154 | 1037 | 54.0 | 54.9 | 1073 | 35.5 | 37.9 | -3.5 | 6.4 | 29.7 | 3.98 | 60.7 | 0.486 | | 2.25 |
| 39 | 134 | 138 | 1029 | 179 | 179 | 1077 | 67.0 | 67.7 | 1101 | 49.2 | 51.0 | -2.2 | 7.8 | 83.8 | 4.37 | 59.9 | 0.484 | | 1.70 |
| 40 | 122 | 126 | 1134 | 77.5 | 79.0 | 1090 | 35.6 | 37.0 | 1068 | 35.8 | 38.1 | 2.0 | 4.6 | 26.7 | 3.58 | 64.2 | 0.619 | | 1.80 |
| 41 | 39.3 | 50.1 | 1121 | 53.3 | 55.4 | 1093 | 27.7 | 29.6 | 1079 | 31.4 | 34.1 | 1.3 | 3.8 | 169 | 15.2 | 939 | 0.779 | | 6.15 |
| 42 | 48.5 | 56.6 | 1128 | 72.0 | 73.6 | 1103 | 29.5 | 31.3 | 1090 | 24.9 | 28.4 | 1.1 | 3.5 | 167 | 15.4 | 747 | 0.794 | | 5.70 |
| 43 | 52.6 | 60.6 | 1140 | 77.6 | 79.0 | 1112 | 33.4 | 34.9 | 1098 | 30.6 | 33.4 | 1.3 | 4.0 | 225 | 17.1 | 777 | 0.909 | | 6.71 |
| 44 | 68.0 | 74.4 | 1030 | 53.1 | 55.2 | 1050 | 26.5 | 28.4 | 1060 | 30.2 | 32.9 | -0.9 | 3.8 | 240 | 18.9 | 2007 | 0.766 | | 8.66 |
| 45 | 69.7 | 76.4 | 1116 | 98.5 | 99.6 | 1084 | 38.7 | 40.0 | 1068 | 30.1 | 32.8 | 1.5 | 4.5 | 223 | 18.1 | 1026 | 1.31 | | 7.45 |
| 46 | 94.4 | 100 | 1015 | 160 | 160 | 1053 | 56.5 | 57.4 | 1071 | 34.4 | 36.8 | -1.7 | 6.4 | 193 | 29.5 | 478 | 0.544 | | 2.99 |
| 47 | 101 | 106 | 1004 | 152 | 153 | 1034 | 52.4 | 53.4 | 1048 | 28.9 | 31.7 | -1.4 | 5.9 | 157 | 30.9 | 588 | 0.597 | | 3.54 |
| 48 | 50.7 | 53.2 | 773 | 256 | 257 | 574 | 56.7 | 57.1 | 525 | 21.9 | 22.9 | 8.5 | 9.8 | 51.4 | 1.76 | 231 | 1.27 | | 3.09 |
| 49 | 61.1 | 63.1 | 544 | 252 | 252 | 540 | 50.6 | 51.0 | 539 | 18.7 | 19.9 | 0.2 | 10.0 | 41.1 | 1.56 | 226 | 0.974 | | 2.76 |

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| | AO | AP | AQ | AR | AS | AT | AU | AV | AW | AX | AY | AZ | BA | BB | BC | BD | BE | BF |
|----|----------------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|-------|------|------|--------------------------|----|
| 1 | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | |
| 3 | Concentrations (ppm) | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | |
| 5 | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Hf | Ta | Th | U | Experiment | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | 0.129 | 1.51 | 4.15 | 1.06 | 19.1 | 6.66 | 67.0 | 17.8 | 55.4 | 9.70 | 63.4 | 7.95 | 12624 | 2.61 | 116 | 957 | Zircon_05Apr22_CGS_KH344 | |
| 10 | 0.111 | 1.72 | 4.19 | 0.881 | 17.9 | 6.49 | 65.5 | 18.1 | 54.9 | 8.70 | 60.8 | 8.08 | 11814 | 2.46 | 115 | 929 | Zircon_05Apr22_CGS_KH344 | |
| 11 | 0.106 | 2.35 | 4.25 | 1.32 | 18.9 | 6.42 | 61.5 | 17.0 | 54.6 | 9.44 | 63.5 | 7.67 | 11724 | 2.66 | 117 | 920 | Zircon_05Apr22_CGS_KH344 | |
| 12 | 0.105 | 1.45 | 2.72 | 0.778 | 10.1 | 4.44 | 48.6 | 13.4 | 47.9 | 8.00 | 55.7 | 7.53 | 13053 | 3.13 | 77.5 | 874 | Zircon_05Apr22_CGS_KH344 | |
| 13 | 0.073 | 1.04 | 2.52 | 0.719 | 12.4 | 4.60 | 50.6 | 13.9 | 45.8 | 8.14 | 56.4 | 7.64 | 12226 | 3.41 | 79.5 | 899 | Zircon_05Apr22_CGS_KH344 | |
| 14 | 0.084 | 1.99 | 4.48 | 1.07 | 17.6 | 6.15 | 67.8 | 17.3 | 57.5 | 9.57 | 65.4 | 8.44 | 12988 | 2.65 | 115 | 983 | Zircon_05Apr22_CGS_KH344 | |
| 15 | 0.133 | 1.39 | 4.03 | 1.19 | 17.9 | 6.36 | 65.5 | 17.3 | 55.7 | 9.09 | 63.3 | 8.28 | 12830 | 2.96 | 114 | 947 | Zircon_05Apr22_CGS_KH344 | |
| 16 | 0.204 | 2.45 | 3.86 | 0.934 | 16.2 | 6.04 | 62.1 | 18.0 | 61.6 | 10.0 | 74.5 | 9.51 | 13776 | 2.66 | 72.4 | 754 | Zircon_05Apr22_CGS_KH344 | |
| 17 | 0.198 | 2.38 | 3.57 | 0.833 | 14.2 | 6.16 | 62.0 | 17.6 | 61.1 | 9.91 | 70.2 | 9.50 | 13471 | 2.38 | 74.3 | 759 | Zircon_05Apr22_CGS_KH344 | |
| 18 | 0.149 | 2.20 | 3.49 | 1.20 | 18.4 | 6.11 | 67.7 | 17.4 | 58.4 | 9.80 | 61.6 | 8.09 | 12563 | 2.74 | 117 | 947 | Zircon_05Apr22_CGS_KH344 | |
| 19 | 0.095 | 1.79 | 4.54 | 1.18 | 18.8 | 6.77 | 66.2 | 17.8 | 56.1 | 9.18 | 60.4 | 7.70 | 12276 | 2.78 | 113 | 932 | Zircon_05Apr22_CGS_KH344 | |
| 20 | 0.095 | 1.88 | 2.37 | 0.692 | 9.21 | 4.04 | 47.5 | 12.7 | 44.0 | 6.48 | 48.5 | 7.11 | 13253 | 2.90 | 71.6 | 819 | Zircon_05Apr22_CGS_KH344 | |
| 21 | 0.088 | 1.27 | 3.68 | 0.821 | 13.3 | 4.51 | 49.1 | 14.7 | 49.0 | 8.34 | 59.6 | 8.23 | 12350 | 3.21 | 83.1 | 938 | Zircon_05Apr22_CGS_KH344 | |
| 22 | 0.069 | 1.27 | 2.77 | 0.538 | 11.0 | 4.43 | 47.6 | 13.2 | 45.9 | 7.87 | 52.5 | 6.93 | 12937 | 3.33 | 75.1 | 875 | Zircon_05Apr22_CGS_KH344 | |
| 23 | 0.081 | 1.25 | 2.58 | 0.611 | 12.8 | 4.76 | 52.3 | 14.9 | 49.0 | 8.31 | 58.6 | 7.72 | 12559 | 3.29 | 86.3 | 952 | Zircon_05Apr22_CGS_KH344 | |
| 24 | 0.202 | 2.17 | 3.15 | 0.875 | 14.1 | 5.28 | 58.4 | 17.6 | 59.7 | 10.2 | 74.2 | 9.57 | 12949 | 2.51 | 72.8 | 743 | Zircon_05Apr22_CGS_KH344 | |
| 25 | 0.163 | 1.65 | 2.65 | 1.24 | 13.6 | 5.94 | 60.9 | 17.3 | 58.8 | 9.71 | 67.7 | 9.41 | 13287 | 2.55 | 70.3 | 717 | Zircon_05Apr22_CGS_KH344 | |
| 26 | 0.256 | 2.55 | 3.16 | 0.900 | 13.7 | 5.87 | 59.8 | 17.3 | 58.5 | 10.3 | 68.9 | 9.76 | 12578 | 2.70 | 70.9 | 733 | Zircon_05Apr22_CGS_KH344 | |
| 27 | 0.204 | 2.49 | 3.50 | 0.689 | 15.7 | 5.53 | 61.2 | 17.1 | 59.7 | 9.62 | 71.2 | 9.94 | 12822 | 2.49 | 68.8 | 717 | Zircon_05Apr22_CGS_KH344 | |
| 28 | 0.093 | 1.35 | 2.75 | 0.837 | 13.2 | 4.48 | 46.6 | 13.6 | 48.4 | 8.22 | 56.4 | 7.30 | 12224 | 2.87 | 82.4 | 922 | Zircon_05Apr22_CGS_KH344 | |
| 29 | 0.109 | 1.11 | 2.56 | 0.517 | 10.3 | 4.22 | 47.0 | 13.1 | 46.1 | 8.00 | 53.9 | 7.38 | 12437 | 3.12 | 75.1 | 868 | Zircon_05Apr22_CGS_KH344 | |
| 30 | 0.180 | 2.36 | 3.39 | 1.29 | 15.0 | 6.06 | 66.0 | 18.1 | 60.3 | 10.5 | 74.4 | 9.77 | 13574 | 2.83 | 75.0 | 785 | Zircon_05Apr22_CGS_KH344 | |
| 31 | 0.284 | 2.79 | 3.91 | 1.02 | 15.8 | 5.88 | 59.3 | 17.4 | 59.3 | 10.1 | 69.5 | 9.04 | 12969 | 2.67 | 70.4 | 734 | Zircon_05Apr22_CGS_KH344 | |
| 32 | | | | | | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | | | | | | |
| 34 | | | | 0.095 | 0.700 | 0.334 | 5.05 | 2.12 | 10.2 | 3.08 | 30.8 | 6.03 | 6180 | 0.424 | 15.8 | 55.7 | Zircon_05Apr22_CGS_KH344 | |
| 35 | | | 0.06 | 0.062 | 0.879 | 0.232 | 4.17 | 1.82 | 10.0 | 2.74 | 29.4 | 6.56 | 6256 | 0.475 | 15.6 | 54.8 | Zircon_05Apr22_CGS_KH344 | |
| 36 | | | 0.195 | | 1.02 | 0.355 | 4.64 | 1.98 | 12.1 | 2.74 | 29.2 | 6.16 | 6187 | 0.409 | 16.0 | 56.9 | Zircon_05Apr22_CGS_KH344 | |
| 37 | | 0.112 | | | 1.30 | 0.375 | 5.51 | 2.05 | 11.8 | 3.09 | 33.8 | 6.62 | 6305 | 0.537 | 16.0 | 59.2 | Zircon_05Apr22_CGS_KH344 | |
| 38 | | | 0.208 | | 0.545 | 0.348 | 5.04 | 2.14 | 11.5 | 2.68 | 30.5 | 6.62 | 6140 | 0.529 | 16.1 | 54.8 | Zircon_05Apr22_CGS_KH344 | |
| 39 | | | | | 0.812 | 0.327 | 4.82 | 2.19 | 10.6 | 2.74 | 31.2 | 6.04 | 6110 | 0.356 | 15.8 | 54.7 | Zircon_05Apr22_CGS_KH344 | |
| 40 | | 0.167 | | | 0.743 | 0.340 | 3.89 | 1.76 | 11.3 | 2.78 | 31.3 | 6.37 | 6236 | 0.447 | 16.3 | 57.8 | Zircon_05Apr22_CGS_KH344 | |
| 41 | 0.060 | 0.662 | 2.34 | 0.085 | 20.2 | 6.75 | 85.7 | 32.0 | 138 | 28.5 | 249 | 45.1 | 11211 | 0.690 | 88.8 | 199 | Zircon_05Apr22_CGS_KH344 | |
| 42 | 0.016 | 0.683 | 2.67 | 0.137 | 15.2 | 5.56 | 65.1 | 24.7 | 113 | 24.0 | 202 | 39.0 | 11410 | 0.661 | 72.8 | 183 | Zircon_05Apr22_CGS_KH344 | |
| 43 | 0.058 | 0.820 | 1.91 | 0.049 | 15.1 | 5.62 | 66.8 | 27.9 | 123 | 25.2 | 217 | 41.3 | 10898 | 0.827 | 80.3 | 198 | Zircon_05Apr22_CGS_KH344 | |
| 44 | 0.278 | 5.69 | 10.9 | 0.300 | 55.8 | 17.9 | 202 | 72.4 | 290 | 56.5 | 463 | 81.5 | 11340 | 0.589 | 189 | 286 | Zircon_05Apr22_CGS_KH344 | |
| 45 | 0.036 | 0.869 | 3.68 | 0.170 | 19.9 | 7.32 | 86.1 | 34.3 | 152 | 30.7 | 270 | 51.9 | 11348 | 0.799 | 105 | 198 | Zircon_05Apr22_CGS_KH344 | |
| 46 | 0.03 | 0.736 | 1.31 | 0.153 | 9.61 | 3.59 | 46.7 | 17.7 | 78.9 | 16.1 | 148 | 29.4 | 11342 | 0.422 | 16.5 | 44.5 | Zircon_05Apr22_CGS_KH344 | |
| 47 | 0.02 | 0.699 | 1.52 | 0.164 | 11.5 | 4.42 | 52.1 | 20.0 | 84.9 | 17.7 | 165 | 32.4 | 11358 | 0.381 | 19.3 | 49.4 | Zircon_05Apr22_CGS_KH344 | |
| 48 | | 0.183 | 0.241 | 0.645 | 2.97 | 1.53 | 21.0 | 8.02 | 37.7 | 9.68 | 98.5 | 19.3 | 6083 | 0.784 | 43.1 | 53.4 | Zircon_05Apr22_CGS_KH344 | |
| 49 | 0.01 | 0.1 | 0.144 | 0.558 | 2.92 | 1.43 | 20.5 | 7.76 | 38.1 | 9.22 | 97.1 | 18.9 | 5961 | 0.747 | 43.8 | 52.5 | Zircon_05Apr22_CGS_KH344 | |

[illegible]