附表1 锆石LA-ICP-MS U-Pb年龄数据

Appendix table 1 Zircon LA-ICP-MS U-Pb data

| 测点号 | Pb | Th | U | Th/U | 207Pb/206Pb | | 207Pb/235U | | 206Pb/238U | | 207Pb/235U （Ma） | | 206Pb/238U （Ma） | | 谐和度(%) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 含量×10-6 | | | 比值 | 2σ | 比值 | 2σ | 比值 | 2σ | 年龄 | 2σ | 年龄 | 2σ |
| 样品DSG4-9，地苏嘎石英闪长玢岩 | | | | | | | | | | | | | | |  |
| DSG4-9-1 | 38.7 | 677.0 | 925.0 | 0.73 | 0.05100 | 0.00170 | 0.24500 | 0.00850 | 0.03522 | 0.00076 | 222.1 | 7.0 | 223.1 | 4.7 | 100 |
| ~~DSG4-9-2~~ | ~~53.7~~ | ~~979.0~~ | ~~1169.0~~ | ~~0.84~~ | ~~0.06910~~ | ~~0.00240~~ | ~~0.33710~~ | ~~0.01200~~ | ~~0.03537~~ | ~~0.00074~~ | ~~293.9~~ | ~~9.0~~ | ~~224.0~~ | ~~4.6~~ | ~~73~~ |
| DSG4-9-3 | 56.4 | 947.0 | 1294.0 | 0.73 | 0.05120 | 0.00150 | 0.25130 | 0.00740 | 0.03561 | 0.00075 | 227.3 | 6.0 | 225.6 | 4.7 | 99 |
| ~~DSG4-9-4~~ | ~~36.1~~ | ~~446.0~~ | ~~569.0~~ | ~~0.78~~ | ~~0.15300~~ | ~~0.01400~~ | ~~0.81200~~ | ~~0.08800~~ | ~~0.03980~~ | ~~0.00120~~ | ~~578.0~~ | ~~48.0~~ | ~~251.6~~ | ~~7.7~~ | ~~21~~ |
| ~~DSG4-9-5~~ | ~~55.6~~ | ~~1155.0~~ | ~~1125.0~~ | ~~1.03~~ | ~~0.07480~~ | ~~0.00370~~ | ~~0.36800~~ | ~~0.01900~~ | ~~0.03597~~ | ~~0.00075~~ | ~~321.0~~ | ~~15.0~~ | ~~227.8~~ | ~~4.7~~ | ~~66~~ |
| DSG4-9-6 | 22.5 | 329.0 | 560.0 | 0.59 | 0.05180 | 0.00210 | 0.25100 | 0.01100 | 0.03502 | 0.00085 | 226.9 | 9.2 | 221.9 | 5.3 | 98 |
| ~~DSG4-9-7~~ | ~~49.0~~ | ~~1023.0~~ | ~~1081.0~~ | ~~0.95~~ | ~~0.05970~~ | ~~0.00180~~ | ~~0.28770~~ | ~~0.00900~~ | ~~0.03487~~ | ~~0.00072~~ | ~~256.2~~ | ~~7.1~~ | ~~220.9~~ | ~~4.5~~ | ~~85~~ |
| DSG4-9-8 | 48.2 | 935.0 | 1130.0 | 0.83 | 0.05300 | 0.00170 | 0.25190 | 0.00780 | 0.03475 | 0.00075 | 227.7 | 6.3 | 220.2 | 4.7 | 97 |
| DSG4-9-9 | 26.6 | 486.0 | 588.0 | 0.83 | 0.05290 | 0.00200 | 0.26230 | 0.01000 | 0.03606 | 0.00080 | 236.7 | 7.9 | 228.3 | 5.0 | 96 |
| DSG4-9-10 | 28.3 | 668.0 | 626.0 | 1.07 | 0.05150 | 0.00170 | 0.24600 | 0.00860 | 0.03452 | 0.00074 | 222.7 | 7.0 | 218.7 | 4.6 | 98 |
| ~~DSG4-9-11~~ | ~~52.7~~ | ~~1114.0~~ | ~~1170.0~~ | ~~0.95~~ | ~~0.06660~~ | ~~0.00260~~ | ~~0.32400~~ | ~~0.01300~~ | ~~0.03506~~ | ~~0.00074~~ | ~~284.7~~ | ~~10.0~~ | ~~222.1~~ | ~~4.6~~ | ~~75~~ |
| DSG4-9-12 | 29.3 | 417.0 | 750.0 | 0.56 | 0.05150 | 0.00210 | 0.24710 | 0.00970 | 0.03521 | 0.00090 | 225.0 | 8.3 | 223.1 | 5.6 | 99 |
| DSG4-9-13 | 40.0 | 694.0 | 928.0 | 0.75 | 0.04980 | 0.00170 | 0.24080 | 0.00830 | 0.03509 | 0.00075 | 218.6 | 6.8 | 222.3 | 4.7 | 98 |
| ~~DSG4-9-14~~ | ~~79.7~~ | ~~2330.0~~ | ~~1620.0~~ | ~~1.44~~ | ~~0.09390~~ | ~~0.00410~~ | ~~0.38600~~ | ~~0.01600~~ | ~~0.03205~~ | ~~0.00080~~ | ~~331.0~~ | ~~12.0~~ | ~~203.3~~ | ~~5.0~~ | ~~52~~ |
| DSG4-9-15 | 56.9 | 979.0 | 1381.0 | 0.71 | 0.05290 | 0.00170 | 0.24740 | 0.00730 | 0.03418 | 0.00078 | 224.8 | 6.2 | 216.6 | 4.9 | 96 |
| ~~DSG4-9-16~~ | ~~44.4~~ | ~~710.0~~ | ~~941.0~~ | ~~0.75~~ | ~~0.07000~~ | ~~0.00350~~ | ~~0.35200~~ | ~~0.01900~~ | ~~0.03675~~ | ~~0.00085~~ | ~~304.0~~ | ~~14.0~~ | ~~232.6~~ | ~~5.3~~ | ~~73~~ |
| DSG4-9-17 | 63.9 | 1212.0 | 1466.0 | 0.83 | 0.05110 | 0.00150 | 0.24650 | 0.00750 | 0.03506 | 0.00079 | 223.4 | 6.1 | 222.1 | 4.9 | 99 |
| ~~DSG4-9-18~~ | ~~35.1~~ | ~~566.0~~ | ~~596.0~~ | ~~0.95~~ | ~~0.12760~~ | ~~0.00890~~ | ~~0.70400~~ | ~~0.05700~~ | ~~0.03855~~ | ~~0.00097~~ | ~~522.0~~ | ~~33.0~~ | ~~243.8~~ | ~~6.0~~ | ~~27~~ |
| ~~DSG4-9-19~~ | ~~22.1~~ | ~~367.8~~ | ~~487.0~~ | ~~0.76~~ | ~~0.07200~~ | ~~0.00300~~ | ~~0.35000~~ | ~~0.01400~~ | ~~0.03535~~ | ~~0.00083~~ | ~~303.3~~ | ~~11.0~~ | ~~223.9~~ | ~~5.2~~ | ~~70~~ |
| DSG4-9-20 | 52.1 | 941.0 | 1219.0 | 0.77 | 0.05130 | 0.00150 | 0.24640 | 0.00680 | 0.03502 | 0.00075 | 223.3 | 5.6 | 221.9 | 4.7 | 99 |
| 样品XWC4-5，休瓦促黑云母花岗岩 | | | | | | | | | | | | | | |  |
| XWC4-5-1 | 46.2 | 739.0 | 1130.0 | 0.65 | 0.05070 | 0.00160 | 0.24200 | 0.00790 | 0.03472 | 0.00070 | 219.6 | 6.5 | 220.0 | 4.4 | 100 |
| XWC4-5-2 | 31.1 | 587.0 | 732.0 | 0.80 | 0.05110 | 0.00180 | 0.24370 | 0.00890 | 0.03464 | 0.00070 | 220.7 | 7.3 | 219.5 | 4.4 | 99 |
| XWC4-5-3 | 41.2 | 749.0 | 990.0 | 0.76 | 0.05130 | 0.00180 | 0.24270 | 0.00840 | 0.03444 | 0.00075 | 220.8 | 7.0 | 218.2 | 4.7 | 99 |
| XWC4-5-4 | 58.4 | 847.0 | 1474.0 | 0.57 | 0.05110 | 0.00150 | 0.24030 | 0.00740 | 0.03433 | 0.00072 | 218.3 | 6.0 | 217.6 | 4.5 | 100 |
| XWC4-5-5 | 55.0 | 961.0 | 1379.0 | 0.70 | 0.05150 | 0.00160 | 0.24670 | 0.00750 | 0.03486 | 0.00067 | 223.4 | 6.1 | 220.9 | 4.1 | 99 |
| XWC4-5-6 | 41.2 | 850.0 | 917.0 | 0.93 | 0.05070 | 0.00170 | 0.24300 | 0.00820 | 0.03499 | 0.00076 | 220.4 | 6.7 | 221.7 | 4.7 | 99 |
| XWC4-5-7 | 84.7 | 2570.0 | 1781.0 | 1.44 | 0.05180 | 0.00160 | 0.24170 | 0.00730 | 0.03412 | 0.00084 | 219.6 | 6.0 | 216.3 | 5.2 | 98 |
| XWC4-5-8 | 42.4 | 894.0 | 983.0 | 0.91 | 0.05130 | 0.00170 | 0.24190 | 0.00840 | 0.03437 | 0.00078 | 219.4 | 6.9 | 217.8 | 4.9 | 99 |
| XWC4-5-9 | 30.7 | 491.0 | 775.0 | 0.63 | 0.05060 | 0.00180 | 0.23780 | 0.00840 | 0.03415 | 0.00074 | 217.6 | 6.9 | 216.4 | 4.6 | 99 |
| XWC4-5-10 | 24.1 | 351.0 | 608.0 | 0.58 | 0.05120 | 0.00200 | 0.23870 | 0.00960 | 0.03407 | 0.00073 | 217.4 | 7.6 | 216.0 | 4.5 | 99 |
| XWC4-5-11 | 40.1 | 617.0 | 960.0 | 0.64 | 0.05140 | 0.00160 | 0.24630 | 0.00800 | 0.03491 | 0.00073 | 223.2 | 6.6 | 221.2 | 4.5 | 99 |
| XWC4-5-12 | 34.4 | 574.0 | 854.0 | 0.67 | 0.05150 | 0.00180 | 0.24010 | 0.00860 | 0.03401 | 0.00074 | 217.9 | 7.0 | 215.6 | 4.6 | 99 |
| XWC4-5-13 | 37.6 | 591.0 | 944.0 | 0.63 | 0.05180 | 0.00170 | 0.24230 | 0.00850 | 0.03423 | 0.00077 | 219.8 | 6.9 | 217.0 | 4.8 | 99 |
| XWC4-5-14 | 30.9 | 448.0 | 765.0 | 0.59 | 0.05300 | 0.00180 | 0.25180 | 0.00880 | 0.03465 | 0.00083 | 227.5 | 7.2 | 219.6 | 5.1 | 96 |
| XWC4-5-15 | 72.9 | 2560.0 | 1428.0 | 1.79 | 0.05150 | 0.00170 | 0.23980 | 0.00800 | 0.03402 | 0.00073 | 217.8 | 6.5 | 215.7 | 4.6 | 99 |
| XWC4-5-16 | 32.1 | 739.0 | 710.0 | 1.04 | 0.05040 | 0.00190 | 0.24070 | 0.00880 | 0.03467 | 0.00076 | 218.3 | 7.2 | 219.7 | 4.8 | 99 |
| XWC4-5-17 | 31.8 | 502.0 | 785.0 | 0.64 | 0.05090 | 0.00180 | 0.24250 | 0.00850 | 0.03476 | 0.00076 | 220.0 | 7.0 | 220.3 | 4.7 | 100 |
| XWC4-5-18 | 44.0 | 888.0 | 1047.0 | 0.85 | 0.05160 | 0.00180 | 0.24400 | 0.00860 | 0.03438 | 0.00080 | 221.2 | 7.0 | 217.9 | 5.0 | 98 |
| XWC4-5-19 | 50.5 | 873.0 | 1213.0 | 0.72 | 0.05080 | 0.00160 | 0.24190 | 0.00750 | 0.03463 | 0.00073 | 219.6 | 6.2 | 219.4 | 4.6 | 100 |
| XWC4-5-20 | 60.3 | 1536.0 | 1311.0 | 1.17 | 0.05060 | 0.00160 | 0.23740 | 0.00770 | 0.03424 | 0.00070 | 215.9 | 6.4 | 217.0 | 4.3 | 99 |
| 样品XWC4-11，休瓦促二长花岗岩 | | | | | | | | | | | | | | |  |
| XWC4-11-1 | 26.9 | 1089.0 | 1682.0 | 0.65 | 0.04860 | 0.00180 | 0.08980 | 0.00330 | 0.01347 | 0.00026 | 87.2 | 3.1 | 86.3 | 1.7 | 99 |
| XWC4-11-2 | 23.1 | 485.0 | 1594.0 | 0.30 | 0.04810 | 0.00190 | 0.08950 | 0.00330 | 0.01357 | 0.00027 | 86.9 | 3.1 | 86.9 | 1.7 | 100 |
| XWC4-11-3 | 34.4 | 465.0 | 2520.0 | 0.18 | 0.04740 | 0.00170 | 0.08750 | 0.00300 | 0.01355 | 0.00030 | 85.0 | 2.8 | 86.7 | 1.9 | 98 |
| XWC4-11-4 | 33.4 | 1307.0 | 2149.0 | 0.61 | 0.04870 | 0.00180 | 0.09040 | 0.00340 | 0.01354 | 0.00031 | 87.8 | 3.1 | 86.7 | 2.0 | 99 |
| ~~XWC4-11-5~~ | ~~69.6~~ | ~~1154.0~~ | ~~5150.0~~ | ~~0.22~~ | ~~0.04850~~ | ~~0.00150~~ | ~~0.08580~~ | ~~0.00270~~ | ~~0.01288~~ | ~~0.00027~~ | ~~83.5~~ | ~~2.6~~ | ~~82.5~~ | ~~1.7~~ | ~~99~~ |
| XWC4-11-6 | 9.4 | 260.0 | 630.0 | 0.41 | 0.04710 | 0.00250 | 0.08760 | 0.00490 | 0.01358 | 0.00032 | 84.9 | 4.5 | 87.0 | 2.0 | 98 |
| XWC4-11-7 | 38.9 | 596.0 | 2990.0 | 0.20 | 0.04950 | 0.00160 | 0.08820 | 0.00290 | 0.01309 | 0.00029 | 85.7 | 2.7 | 83.8 | 1.9 | 98 |
| ~~XWC4-11-8~~ | ~~27.9~~ | ~~614.0~~ | ~~2060.0~~ | ~~0.30~~ | ~~0.05040~~ | ~~0.00170~~ | ~~0.09450~~ | ~~0.00340~~ | ~~0.01359~~ | ~~0.00028~~ | ~~91.6~~ | ~~3.1~~ | ~~87.0~~ | ~~1.8~~ | ~~95~~ |
| ~~XWC4-11-9~~ | ~~12.5~~ | ~~254.9~~ | ~~860.0~~ | ~~0.30~~ | ~~0.05780~~ | ~~0.00280~~ | ~~0.10700~~ | ~~0.00510~~ | ~~0.01357~~ | ~~0.00032~~ | ~~102.9~~ | ~~4.7~~ | ~~86.9~~ | ~~2.0~~ | ~~83~~ |
| ~~XWC4-11-10~~ | ~~44.6~~ | ~~722.0~~ | ~~3109.0~~ | ~~0.23~~ | ~~0.05090~~ | ~~0.00150~~ | ~~0.09400~~ | ~~0.00270~~ | ~~0.01352~~ | ~~0.00027~~ | ~~91.2~~ | ~~2.5~~ | ~~86.6~~ | ~~1.7~~ | ~~95~~ |
| ~~XWC4-11-11~~ | ~~80.7~~ | ~~1425.0~~ | ~~5990.0~~ | ~~0.24~~ | ~~0.04872~~ | ~~0.00130~~ | ~~0.08500~~ | ~~0.00240~~ | ~~0.01273~~ | ~~0.00026~~ | ~~82.8~~ | ~~2.2~~ | ~~81.6~~ | ~~1.7~~ | ~~99~~ |
| XWC4-11-12 | 32.4 | 478.0 | 2384.0 | 0.20 | 0.04850 | 0.00170 | 0.08670 | 0.00300 | 0.01302 | 0.00027 | 84.3 | 2.8 | 83.4 | 1.7 | 99 |
| ~~XWC4-11-13~~ | ~~33.9~~ | ~~567.0~~ | ~~2397.0~~ | ~~0.24~~ | ~~0.05200~~ | ~~0.00170~~ | ~~0.09520~~ | ~~0.00330~~ | ~~0.01332~~ | ~~0.00029~~ | ~~92.2~~ | ~~3.1~~ | ~~85.3~~ | ~~1.8~~ | ~~92~~ |
| XWC4-11-14 | 34.8 | 367.0 | 2566.0 | 0.14 | 0.04920 | 0.00190 | 0.08950 | 0.00320 | 0.01332 | 0.00029 | 87.0 | 3.0 | 85.3 | 1.9 | 98 |
| ~~XWC4-11-15~~ | ~~21.2~~ | ~~493.0~~ | ~~1437.0~~ | ~~0.34~~ | ~~0.05780~~ | ~~0.00230~~ | ~~0.10610~~ | ~~0.00430~~ | ~~0.01340~~ | ~~0.00029~~ | ~~102.2~~ | ~~3.9~~ | ~~85.8~~ | ~~1.8~~ | ~~83~~ |
| XWC4-11-16 | 34.4 | 672.0 | 2415.0 | 0.28 | 0.04760 | 0.00160 | 0.08770 | 0.00320 | 0.01334 | 0.00029 | 85.2 | 3.0 | 85.4 | 1.8 | 100 |
| XWC4-11-17 | 32.5 | 397.0 | 2351.0 | 0.17 | 0.04810 | 0.00180 | 0.08900 | 0.00340 | 0.01357 | 0.00031 | 86.5 | 3.2 | 86.9 | 2.0 | 100 |
| XWC4-11-18 | 36.9 | 2520.0 | 2122.0 | 1.19 | 0.04930 | 0.00180 | 0.08940 | 0.00330 | 0.01330 | 0.00032 | 86.9 | 3.1 | 85.2 | 2.0 | 98 |
| XWC4-11-19 | 33.8 | 851.0 | 2500.0 | 0.34 | 0.04820 | 0.00200 | 0.08900 | 0.00380 | 0.01350 | 0.00037 | 86.4 | 3.6 | 86.4 | 2.4 | 100 |
| XWC4-11-20 | 55.5 | 786.0 | 4060.0 | 0.19 | 0.04860 | 0.00140 | 0.08890 | 0.00270 | 0.01336 | 0.00027 | 86.4 | 2.6 | 85.6 | 1.7 | 99 |
| 样品TCG16，铜厂沟花岗闪长斑岩 | | | | | | | | | | | | | | |  |
| TCG16-1 | 14.9 | 544.0 | 963.0 | 0.56 | 0.04590 | 0.00190 | 0.08600 | 0.00380 | 0.01350 | 0.00032 | 83.6 | 3.5 | 86.4 | 2.0 | 97 |
| TCG16-2 | 18.2 | 678.0 | 1187.0 | 0.57 | 0.04720 | 0.00200 | 0.08670 | 0.00360 | 0.01333 | 0.00032 | 84.2 | 3.4 | 85.4 | 2.1 | 99 |
| TCG16-3 | 13.6 | 411.0 | 926.0 | 0.44 | 0.04820 | 0.00250 | 0.08800 | 0.00420 | 0.01332 | 0.00034 | 86.0 | 4.0 | 85.3 | 2.1 | 99 |
| TCG16-4 | 14.7 | 409.0 | 994.0 | 0.41 | 0.04810 | 0.00220 | 0.08800 | 0.00380 | 0.01342 | 0.00033 | 85.4 | 3.5 | 85.9 | 2.1 | 99 |
| TCG16-5 | 27.1 | 1372.0 | 1635.0 | 0.84 | 0.04910 | 0.00190 | 0.09120 | 0.00370 | 0.01353 | 0.00036 | 88.9 | 3.6 | 86.6 | 2.3 | 97 |
| TCG16-6 | 15.8 | 504.0 | 1050.0 | 0.48 | 0.04730 | 0.00210 | 0.08890 | 0.00420 | 0.01354 | 0.00034 | 86.2 | 4.0 | 86.7 | 2.2 | 99 |
| TCG16-7 | 16.8 | 541.0 | 1085.0 | 0.50 | 0.04910 | 0.00220 | 0.08990 | 0.00420 | 0.01328 | 0.00030 | 87.2 | 3.9 | 85.1 | 1.9 | 98 |
| TCG16-8 | 9.1 | 147.2 | 647.0 | 0.23 | 0.04700 | 0.00260 | 0.08780 | 0.00470 | 0.01354 | 0.00032 | 85.1 | 4.4 | 86.7 | 2.1 | 98 |
| TCG16-9 | 14.9 | 422.0 | 996.0 | 0.42 | 0.04800 | 0.00220 | 0.08980 | 0.00400 | 0.01359 | 0.00033 | 87.5 | 3.8 | 87.0 | 2.1 | 99 |
| TCG16-10 | 17.4 | 624.0 | 1142.0 | 0.55 | 0.04760 | 0.00190 | 0.08850 | 0.00360 | 0.01341 | 0.00029 | 86.0 | 3.4 | 85.8 | 1.8 | 100 |
| TCG16-11 | 14.8 | 532.0 | 964.0 | 0.55 | 0.04860 | 0.00220 | 0.09040 | 0.00410 | 0.01347 | 0.00031 | 87.6 | 3.8 | 86.3 | 2.0 | 99 |
| TCG16-12 | 11.1 | 315.2 | 751.0 | 0.42 | 0.04730 | 0.00250 | 0.08710 | 0.00440 | 0.01340 | 0.00031 | 85.5 | 4.3 | 85.8 | 2.0 | 100 |
| TCG16-13 | 12.5 | 388.0 | 832.0 | 0.47 | 0.04730 | 0.00240 | 0.08860 | 0.00420 | 0.01370 | 0.00031 | 86.0 | 3.9 | 87.9 | 1.9 | 98 |
| TCG16-14 | 11.3 | 360.8 | 736.0 | 0.49 | 0.04660 | 0.00230 | 0.08770 | 0.00450 | 0.01360 | 0.00033 | 85.6 | 4.3 | 87.1 | 2.1 | 98 |
| TCG16-15 | 22.6 | 883.0 | 1466.0 | 0.60 | 0.04740 | 0.00200 | 0.08770 | 0.00370 | 0.01344 | 0.00031 | 85.2 | 3.4 | 86.1 | 2.0 | 99 |
| TCG16-16 | 13.4 | 380.0 | 900.0 | 0.42 | 0.04770 | 0.00220 | 0.08850 | 0.00410 | 0.01356 | 0.00030 | 85.9 | 3.8 | 86.8 | 1.9 | 99 |
| TCG16-17 | 14.5 | 400.0 | 958.0 | 0.42 | 0.04880 | 0.00200 | 0.09310 | 0.00400 | 0.01379 | 0.00030 | 90.2 | 3.7 | 88.3 | 1.9 | 98 |

续上表

| 测点号 | Pb | Th | U | Th/U | 207Pb/206Pb | | 207Pb/235U | | 206Pb/238U | | 207Pb/235U （Ma） | | 206Pb/238U （Ma） | | 谐和  度(%) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 含量×10-6 | | | 比值 | 2σ | 比值 | 2σ | 比值 | 2σ | 年龄 | 2σ | 年龄 | 2σ |
| TCG16-18 | 17.3 | 577.0 | 1132.0 | 0.51 | 0.04840 | 0.00220 | 0.09060 | 0.00400 | 0.01362 | 0.00030 | 87.9 | 3.7 | 87.2 | 1.9 | 99 |
| TCG16-19 | 10.9 | 257.9 | 745.0 | 0.35 | 0.04870 | 0.00240 | 0.09180 | 0.00450 | 0.01357 | 0.00031 | 88.9 | 4.2 | 86.9 | 2.0 | 98 |
| TCG16-20 | 19.3 | 703.0 | 1268.0 | 0.55 | 0.04960 | 0.00200 | 0.08930 | 0.00350 | 0.01316 | 0.00028 | 87.1 | 3.3 | 84.3 | 1.8 | 97 |
| 样品TCG21，铜厂沟花岗闪长斑岩 | | | | | | | | | | | | | | |  |
| TCG21-1 | 10.6 | 241.0 | 730.0 | 0.33 | 0.04720 | 0.00230 | 0.08790 | 0.00470 | 0.01345 | 0.00037 | 85.2 | 4.3 | 86.1 | 2.4 | 99 |
| TCG21-2 | 14.6 | 402.0 | 976.0 | 0.41 | 0.04770 | 0.00220 | 0.08910 | 0.00400 | 0.01360 | 0.00034 | 86.5 | 3.7 | 87.1 | 2.2 | 99 |
| TCG21-3 | 13.9 | 514.0 | 908.0 | 0.57 | 0.04740 | 0.00220 | 0.08780 | 0.00400 | 0.01352 | 0.00037 | 85.2 | 3.8 | 86.6 | 2.3 | 98 |
| TCG21-4 | 21.9 | 638.0 | 1408.0 | 0.45 | 0.05290 | 0.00230 | 0.09160 | 0.00440 | 0.01331 | 0.00034 | 88.8 | 4.0 | 85.3 | 2.2 | 96 |
| TCG21-5 | 14.6 | 536.0 | 951.0 | 0.56 | 0.04840 | 0.00230 | 0.08790 | 0.00420 | 0.01328 | 0.00032 | 85.3 | 3.9 | 85.0 | 2.0 | 100 |
| TCG21-6 | 15.1 | 516.0 | 993.0 | 0.52 | 0.04760 | 0.00240 | 0.08830 | 0.00410 | 0.01349 | 0.00032 | 85.7 | 3.8 | 86.4 | 2.0 | 99 |
| TCG21-7 | 15.6 | 461.0 | 1008.0 | 0.46 | 0.05020 | 0.00210 | 0.09500 | 0.00410 | 0.01378 | 0.00033 | 92.3 | 3.7 | 88.2 | 2.1 | 95 |
| TCG21-8 | 20.7 | 693.0 | 1346.0 | 0.51 | 0.04840 | 0.00180 | 0.09090 | 0.00360 | 0.01352 | 0.00030 | 88.1 | 3.3 | 86.6 | 1.9 | 98 |
| TCG21-9 | 16.2 | 449.0 | 1063.0 | 0.42 | 0.04780 | 0.00210 | 0.09030 | 0.00410 | 0.01373 | 0.00032 | 87.6 | 3.8 | 87.9 | 2.0 | 100 |
| TCG21-10 | 13.5 | 571.0 | 823.0 | 0.69 | 0.04930 | 0.00230 | 0.09320 | 0.00430 | 0.01376 | 0.00029 | 90.2 | 4.0 | 88.1 | 1.8 | 98 |
| TCG21-11 | 17.8 | 733.0 | 1118.0 | 0.66 | 0.04780 | 0.00180 | 0.08960 | 0.00350 | 0.01362 | 0.00030 | 86.9 | 3.2 | 87.2 | 1.9 | 100 |
| TCG21-12 | 14.8 | 546.0 | 964.0 | 0.57 | 0.04780 | 0.00200 | 0.08820 | 0.00360 | 0.01343 | 0.00028 | 85.7 | 3.4 | 86.0 | 1.8 | 100 |
| TCG21-13 | 20.6 | 1256.0 | 1166.0 | 1.08 | 0.04850 | 0.00200 | 0.09130 | 0.00360 | 0.01355 | 0.00030 | 88.6 | 3.3 | 86.8 | 1.9 | 98 |
| TCG21-14 | 10.2 | 254.0 | 692.0 | 0.37 | 0.04770 | 0.00240 | 0.08940 | 0.00440 | 0.01358 | 0.00032 | 86.7 | 4.1 | 87.0 | 2.0 | 100 |
| TCG21-15 | 15.2 | 557.0 | 938.0 | 0.59 | 0.04880 | 0.00200 | 0.09260 | 0.00410 | 0.01367 | 0.00029 | 89.7 | 3.8 | 87.5 | 1.8 | 98 |
| TCG21-16 | 14.2 | 464.0 | 940.0 | 0.49 | 0.04690 | 0.00210 | 0.08590 | 0.00390 | 0.01338 | 0.00029 | 83.5 | 3.6 | 85.7 | 1.8 | 97 |
| TCG21-17 | 17.1 | 559.0 | 1063.0 | 0.53 | 0.04970 | 0.00200 | 0.09520 | 0.00360 | 0.01395 | 0.00029 | 92.5 | 3.3 | 89.3 | 1.9 | 96 |
| TCG21-18 | 21.7 | 818.0 | 1420.0 | 0.58 | 0.04840 | 0.00190 | 0.08970 | 0.00350 | 0.01346 | 0.00028 | 87.0 | 3.3 | 86.2 | 1.8 | 99 |
| TCG21-19 | 13.2 | 384.0 | 870.0 | 0.44 | 0.04820 | 0.00230 | 0.09020 | 0.00430 | 0.01367 | 0.00031 | 87.4 | 4.0 | 87.5 | 2.0 | 100 |
| TCG21-20 | 21.1 | 741.0 | 1376.0 | 0.54 | 0.04870 | 0.00180 | 0.09000 | 0.00360 | 0.01342 | 0.00030 | 87.3 | 3.3 | 85.9 | 1.9 | 98 |
| 样品RL1，热林二长花岗岩 | | | | | | | | | | | | | | |  |
| RL1-1 | 25.7 | 365.0 | 1932.0 | 0.19 | 0.04830 | 0.00170 | 0.08390 | 0.00300 | 0.01259 | 0.00028 | 81.7 | 2.9 | 80.7 | 1.8 | 99 |
| RL1-2 | 22.3 | 420.0 | 1734.0 | 0.24 | 0.04920 | 0.00260 | 0.08620 | 0.00440 | 0.01287 | 0.00036 | 83.8 | 4.1 | 82.4 | 2.3 | 98 |
| RL1-3 | 28.8 | 455.0 | 2176.0 | 0.21 | 0.04900 | 0.00180 | 0.08690 | 0.00320 | 0.01287 | 0.00030 | 84.5 | 3.0 | 82.5 | 1.9 | 98 |
| ~~RL1-4~~ | ~~43.6~~ | ~~1350.0~~ | ~~3330.0~~ | ~~0.41~~ | ~~0.04870~~ | ~~0.00190~~ | ~~0.07240~~ | ~~0.00340~~ | ~~0.01147~~ | ~~0.00032~~ | ~~70.9~~ | ~~3.2~~ | ~~73.5~~ | ~~2.1~~ | ~~96~~ |
| RL1-5 | 30.9 | 632.0 | 2268.0 | 0.28 | 0.04750 | 0.00160 | 0.08300 | 0.00300 | 0.01265 | 0.00027 | 80.9 | 2.8 | 81.0 | 1.7 | 100 |
| ~~RL1-6~~ | ~~28.7~~ | ~~1960.0~~ | ~~3570.0~~ | ~~0.55~~ | ~~0.05190~~ | ~~0.00200~~ | ~~0.05220~~ | ~~0.00240~~ | ~~0.00733~~ | ~~0.00029~~ | ~~51.6~~ | ~~2.3~~ | ~~47.1~~ | ~~1.8~~ | ~~91~~ |
| RL1-7 | 27.7 | 416.0 | 2079.0 | 0.20 | 0.04790 | 0.00210 | 0.08430 | 0.00350 | 0.01281 | 0.00032 | 82.0 | 3.2 | 82.1 | 2.0 | 100 |
| RL1-8 | 32.1 | 1144.0 | 2208.0 | 0.52 | 0.04980 | 0.00220 | 0.08760 | 0.00400 | 0.01274 | 0.00033 | 85.1 | 3.7 | 81.6 | 2.1 | 96 |
| RL1-9 | 35.3 | 875.0 | 2640.0 | 0.33 | 0.04860 | 0.00160 | 0.08180 | 0.00270 | 0.01231 | 0.00026 | 79.7 | 2.6 | 78.9 | 1.6 | 99 |
| RL1-10 | 19.3 | 586.0 | 1399.0 | 0.42 | 0.04760 | 0.00190 | 0.08220 | 0.00310 | 0.01252 | 0.00029 | 80.1 | 2.9 | 80.2 | 1.8 | 100 |
| RL1-11 | 22.6 | 465.0 | 1730.0 | 0.27 | 0.04850 | 0.00210 | 0.08470 | 0.00390 | 0.01270 | 0.00035 | 82.4 | 3.6 | 81.3 | 2.2 | 99 |
| RL1-12 | 26.2 | 455.0 | 2022.0 | 0.23 | 0.04820 | 0.00190 | 0.08370 | 0.00340 | 0.01268 | 0.00031 | 81.5 | 3.1 | 81.2 | 2.0 | 100 |
| RL1-13 | 25.4 | 554.0 | 1902.0 | 0.29 | 0.04740 | 0.00190 | 0.08210 | 0.00320 | 0.01265 | 0.00027 | 79.9 | 3.0 | 81.1 | 1.7 | 99 |
| ~~RL1-14~~ | ~~35.0~~ | ~~1850.0~~ | ~~2340.0~~ | ~~0.79~~ | ~~0.05260~~ | ~~0.00190~~ | ~~0.08960~~ | ~~0.00330~~ | ~~0.01230~~ | ~~0.00029~~ | ~~87.0~~ | ~~3.1~~ | ~~78.8~~ | ~~1.9~~ | ~~90~~ |
| RL1-15 | 27.3 | 616.0 | 1930.0 | 0.32 | 0.04770 | 0.00170 | 0.08700 | 0.00290 | 0.01320 | 0.00028 | 84.6 | 2.7 | 84.5 | 1.8 | 100 |
| RL1-16 | 32.5 | 772.0 | 2364.0 | 0.33 | 0.04780 | 0.00170 | 0.08380 | 0.00310 | 0.01273 | 0.00027 | 81.6 | 2.9 | 81.5 | 1.7 | 100 |
| RL1-17 | 29.5 | 697.0 | 2273.0 | 0.31 | 0.04940 | 0.00160 | 0.08400 | 0.00280 | 0.01239 | 0.00025 | 81.8 | 2.6 | 79.4 | 1.6 | 97 |
| RL1-18 | 14.6 | 228.0 | 1103.0 | 0.21 | 0.04870 | 0.00210 | 0.08420 | 0.00360 | 0.01267 | 0.00033 | 81.9 | 3.4 | 81.1 | 2.1 | 99 |
| RL1-19 | 23.6 | 654.0 | 1749.0 | 0.37 | 0.04890 | 0.00180 | 0.08510 | 0.00310 | 0.01270 | 0.00032 | 83.2 | 2.9 | 81.3 | 2.1 | 98 |
| RL1-20 | 27.5 | 568.0 | 1986.0 | 0.29 | 0.04920 | 0.00190 | 0.08710 | 0.00320 | 0.01293 | 0.00027 | 84.7 | 3.0 | 82.8 | 1.7 | 98 |
| 样品RL3，热林二长花岗岩 | | | | | | | | | | | | | | |  |
| RL3-1 | 27.3 | 464.0 | 2022.0 | 0.23 | 0.04740 | 0.00160 | 0.08380 | 0.00290 | 0.01280 | 0.00027 | 81.6 | 2.8 | 82.0 | 1.7 | 100 |
| RL3-2 | 30.8 | 1055.0 | 2260.0 | 0.47 | 0.05000 | 0.00200 | 0.08700 | 0.00330 | 0.01267 | 0.00028 | 84.6 | 3.1 | 81.1 | 1.8 | 96 |
| RL3-3 | 20.9 | 350.0 | 1574.0 | 0.22 | 0.04890 | 0.00190 | 0.08650 | 0.00330 | 0.01296 | 0.00030 | 84.2 | 3.1 | 83.0 | 1.9 | 99 |
| RL3-4 | 35.2 | 765.0 | 2740.0 | 0.28 | 0.04820 | 0.00190 | 0.08500 | 0.00310 | 0.01294 | 0.00030 | 82.8 | 2.9 | 82.9 | 1.9 | 100 |
| RL3-5 | 27.9 | 1360.0 | 1955.0 | 0.70 | 0.04760 | 0.00200 | 0.07900 | 0.00330 | 0.01212 | 0.00028 | 77.0 | 3.1 | 77.6 | 1.8 | 99 |
| RL3-6 | 18.8 | 461.0 | 1400.0 | 0.33 | 0.04820 | 0.00180 | 0.08500 | 0.00320 | 0.01280 | 0.00027 | 82.7 | 3.0 | 82.0 | 1.7 | 99 |
| RL3-7 | 46.3 | 1009.0 | 3510.0 | 0.29 | 0.04840 | 0.00150 | 0.08410 | 0.00270 | 0.01269 | 0.00032 | 81.9 | 2.5 | 81.3 | 2.1 | 99 |
| RL3-8 | 16.6 | 347.0 | 1236.0 | 0.28 | 0.04890 | 0.00200 | 0.08490 | 0.00340 | 0.01276 | 0.00028 | 82.6 | 3.1 | 81.7 | 1.8 | 99 |
| RL3-9 | 27.2 | 630.0 | 2027.0 | 0.31 | 0.04730 | 0.00170 | 0.08160 | 0.00290 | 0.01261 | 0.00028 | 79.5 | 2.7 | 80.8 | 1.8 | 98 |
| RL3-10 | 27.6 | 669.0 | 2012.0 | 0.33 | 0.04860 | 0.00190 | 0.08360 | 0.00330 | 0.01250 | 0.00028 | 81.4 | 3.1 | 80.1 | 1.8 | 98 |
| RL3-11 | 33.1 | 1360.0 | 2221.0 | 0.61 | 0.04880 | 0.00150 | 0.08570 | 0.00270 | 0.01290 | 0.00028 | 83.9 | 2.5 | 82.6 | 1.8 | 98 |
| RL3-12 | 27.1 | 935.0 | 1979.0 | 0.47 | 0.04830 | 0.00170 | 0.08440 | 0.00320 | 0.01265 | 0.00030 | 82.2 | 3.0 | 81.1 | 1.9 | 99 |
| RL3-13 | 16.4 | 284.0 | 1249.0 | 0.23 | 0.04690 | 0.00200 | 0.08020 | 0.00310 | 0.01261 | 0.00031 | 78.2 | 2.9 | 80.8 | 2.0 | 97 |
| ~~RL3-14~~ | ~~25.0~~ | ~~774.0~~ | ~~1857.0~~ | ~~0.42~~ | ~~0.05200~~ | ~~0.00200~~ | ~~0.08700~~ | ~~0.00310~~ | ~~0.01228~~ | ~~0.00028~~ | ~~84.6~~ | ~~2.9~~ | ~~78.7~~ | ~~1.8~~ | ~~93~~ |
| RL3-15 | 23.8 | 759.0 | 1762.0 | 0.43 | 0.05000 | 0.00170 | 0.08550 | 0.00300 | 0.01247 | 0.00027 | 83.2 | 2.8 | 79.9 | 1.7 | 96 |
| ~~RL3-16~~ | ~~39.2~~ | ~~1630.0~~ | ~~3040.0~~ | ~~0.54~~ | ~~0.05060~~ | ~~0.00240~~ | ~~0.07080~~ | ~~0.00350~~ | ~~0.01070~~ | ~~0.00032~~ | ~~69.3~~ | ~~3.3~~ | ~~68.6~~ | ~~2.1~~ | ~~99~~ |
| RL3-17 | 25.2 | 655.0 | 1783.0 | 0.37 | 0.04760 | 0.00170 | 0.08540 | 0.00320 | 0.01303 | 0.00029 | 83.1 | 3.0 | 83.5 | 1.8 | 100 |
| RL3-18 | 17.4 | 264.3 | 1321.0 | 0.20 | 0.04850 | 0.00200 | 0.08380 | 0.00350 | 0.01263 | 0.00029 | 81.6 | 3.2 | 80.9 | 1.8 | 99 |
| RL3-19 | 27.9 | 894.0 | 1922.0 | 0.47 | 0.04830 | 0.00180 | 0.08420 | 0.00320 | 0.01274 | 0.00030 | 82.0 | 3.0 | 81.6 | 1.9 | 100 |
| RL3-20 | 32.0 | 577.0 | 2433.0 | 0.24 | 0.04780 | 0.00160 | 0.08250 | 0.00290 | 0.01252 | 0.00030 | 80.4 | 2.7 | 80.2 | 1.9 | 100 |

注：加删除线数据为谐和度低于90%、与前人锆石年龄资料相差较大及离群的点位测试数据，在锆石U-Pb年龄计算时予以剔除。

附表2 锆石微量元素数据（10-6）及筛选情况

Appendix table 2 Zircon trace element data（10-6）and screening

| 岩石 | 样号 | 分析编号 | 年龄(Ma) | Ti | Y | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Hf | Ta | Th | U | 数据筛选及剔除 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 地苏嘎石  英闪长玢  岩 | DSG4-9 | 1 | 223.1 | 8.30 | 2223 | 0.033 | 65.70 | 0.11 | 1.81 | 6.29 | 3.17 | 40.70 | 13.95 | 188.50 | 71.70 | 351.00 | 76.50 | 692.00 | 138.00 | 10040 | 4.74 | 677 | 925 | 合格 |
| 2 | 224.0 | 7.87 | 2432 | 0.001 | 68.40 | 0.11 | 1.65 | 5.07 | 3.35 | 39.00 | 14.00 | 185.10 | 74.30 | 368.00 | 85.60 | 844.00 | 168.30 | 10070 | 3.78 | 979 | 1169 | 1 |
| 3 | 225.6 | 6.52 | 2221 | 0.000 | 64.50 | 0.07 | 1.56 | 5.14 | 2.75 | 36.60 | 12.75 | 166.60 | 67.40 | 345.80 | 78.20 | 740.00 | 158.40 | 10420 | 4.67 | 947 | 1294 | 合格 |
| 4 | 251.6 | 5.48 | 1734 | 0.058 | 43.60 | 0.18 | 2.52 | 4.94 | 2.59 | 30.40 | 10.87 | 136.80 | 53.30 | 271.10 | 62.60 | 584.00 | 121.20 | 9420 | 1.71 | 446 | 569 | 1 |
| 5 | 227.8 | 6.70 | 2148 | 0.025 | 63.80 | 0.12 | 2.04 | 6.34 | 3.29 | 41.90 | 14.35 | 184.80 | 68.20 | 336.00 | 72.30 | 666.00 | 134.80 | 9900 | 4.12 | 1155 | 1125 | 1 |
| 6 | 221.9 | 5.08 | 1350 | 0.016 | 31.60 | 0.05 | 0.90 | 2.47 | 1.47 | 17.70 | 6.66 | 91.00 | 39.80 | 213.50 | 52.60 | 554.00 | 119.60 | 9570 | 1.21 | 329 | 560 | 合格 |
| 7 | 220.9 | 8.65 | 2684 | 0.003 | 82.00 | 0.11 | 2.53 | 7.06 | 3.51 | 48.60 | 17.45 | 230.20 | 85.90 | 415.00 | 88.50 | 828.00 | 158.60 | 9880 | 4.53 | 1023 | 1081 | 1 |
| 8 | 220.2 | 6.21 | 1828 | 0.009 | 53.20 | 0.08 | 1.24 | 4.06 | 2.61 | 29.90 | 10.56 | 138.10 | 55.30 | 289.30 | 66.10 | 661.00 | 134.80 | 10220 | 3.42 | 935 | 1130 | 合格 |
| 9 | 228.3 | 7.17 | 1914 | 0.051 | 51.20 | 0.13 | 2.33 | 5.23 | 2.88 | 35.50 | 12.20 | 161.70 | 60.80 | 303.40 | 66.70 | 621.00 | 124.30 | 9480 | 2.31 | 486 | 588 | 合格 |
| 10 | 218.7 | 7.40 | 1776 | 0.037 | 62.80 | 0.15 | 2.04 | 5.76 | 2.84 | 37.00 | 12.49 | 157.00 | 58.00 | 290.80 | 62.30 | 576.00 | 119.30 | 9050 | 2.41 | 668 | 626 | 合格 |
| 11 | 222.1 | 6.67 | 1959 | 0.077 | 67.40 | 0.32 | 3.26 | 6.07 | 3.26 | 36.00 | 11.70 | 147.50 | 58.60 | 308.00 | 70.20 | 680.00 | 139.30 | 10100 | 2.98 | 1114 | 1170 | 1 |
| 12 | 223.1 | 5.81 | 1828 | 1.120 | 46.20 | 0.40 | 2.46 | 2.88 | 1.73 | 21.40 | 7.88 | 121.20 | 47.80 | 277.00 | 71.20 | 712.00 | 152.90 | 10570 | 1.80 | 417 | 750 | 2 |
| 13 | 222.3 | 8.91 | 2710 | 0.000 | 73.50 | 0.12 | 2.07 | 5.60 | 3.56 | 43.30 | 16.57 | 221.00 | 87.10 | 439.00 | 93.10 | 897.00 | 171.70 | 10380 | 4.93 | 694 | 928 | 合格 |
| 14 | 203.3 | 38.70 | 4390 | 9.600 | 175.00 | 13.50 | 80.00 | 57.00 | 14.60 | 139.00 | 36.80 | 408.00 | 135.00 | 615.00 | 132.50 | 1234.00 | 243.00 | 8840 | 3.78 | 2330 | 1620 | 1、2 |
| 15 | 216.6 | 7.16 | 2325 | 0.003 | 60.70 | 0.07 | 1.82 | 3.56 | 2.62 | 29.90 | 10.87 | 154.00 | 63.00 | 353.00 | 87.40 | 878.00 | 182.10 | 10280 | 2.75 | 979 | 1381 | 合格 |
| 16 | 232.6 | 7.27 | 2347 | 0.005 | 62.40 | 0.09 | 1.74 | 5.49 | 2.88 | 35.80 | 13.61 | 186.80 | 73.90 | 380.00 | 84.00 | 788.00 | 154.40 | 10080 | 3.66 | 710 | 941 | 1 |
| 17 | 222.1 | 7.77 | 2659 | 0.022 | 72.90 | 0.15 | 1.95 | 5.18 | 3.19 | 36.20 | 13.19 | 182.50 | 73.80 | 406.00 | 96.60 | 963.00 | 198.30 | 10450 | 2.95 | 1212 | 1466 | 合格 |
| 18 | 243.8 | 6.92 | 1870 | 0.450 | 57.30 | 1.17 | 7.80 | 7.46 | 3.68 | 38.90 | 12.54 | 150.90 | 57.20 | 284.00 | 64.60 | 585.00 | 116.50 | 9340 | 2.18 | 566 | 596 | 1、2 |
| 19 | 223.9 | 7.56 | 1784 | 0.062 | 45.50 | 0.20 | 2.49 | 5.41 | 2.83 | 34.10 | 11.41 | 145.80 | 55.90 | 285.40 | 62.50 | 588.00 | 118.60 | 9110 | 1.74 | 368 | 487 | 1 |
| 20 | 221.9 | 6.18 | 1846 | 0.041 | 54.10 | 0.08 | 1.59 | 4.18 | 2.31 | 30.10 | 10.72 | 139.90 | 53.70 | 289.30 | 67.00 | 664.00 | 137.60 | 10480 | 3.92 | 941 | 1219 | 合格 |
| 平均值 |  |  | 7.07 | 2085 | 0.021 | 59.02 | 0.10 | 1.73 | 4.75 | 2.74 | 33.69 | 12.00 | 160.03 | 63.06 | 328.11 | 74.65 | 724.60 | 148.41 | 10037 | 3.33 | 787 | 1012 |  |
| 休瓦促黑  云母花岗  岩 | XWC4-5 | 1 | 220.0 | 2.77 | 1481 | 0.009 | 50.70 | 0.03 | 0.71 | 2.45 | 1.00 | 16.70 | 6.47 | 95.40 | 43.60 | 254.70 | 61.70 | 627.00 | 145.90 | 12380 | 3.73 | 739 | 1130 | 合格 |
| 2 | 219.5 | 4.30 | 1084 | 0.045 | 45.60 | 0.08 | 1.45 | 3.00 | 1.17 | 18.88 | 6.42 | 84.40 | 34.80 | 178.60 | 41.00 | 418.00 | 89.60 | 11540 | 2.47 | 587 | 732 | 合格 |
| 3 | 218.2 | 5.38 | 1552 | 0.000 | 59.10 | 0.07 | 1.20 | 3.02 | 1.23 | 22.40 | 7.96 | 113.50 | 47.80 | 262.00 | 60.90 | 605.00 | 140.90 | 11310 | 3.04 | 749 | 990 | 合格 |
| 4 | 217.6 | 2.94 | 1766 | 0.000 | 53.10 | 0.04 | 0.71 | 2.52 | 0.97 | 18.60 | 7.71 | 113.40 | 52.10 | 302.00 | 76.20 | 784.00 | 173.90 | 12340 | 4.81 | 847 | 1474 | 合格 |
| 5 | 220.9 | 4.62 | 2100 | 0.000 | 82.20 | 0.08 | 1.46 | 4.10 | 1.41 | 29.00 | 10.68 | 166.00 | 66.00 | 364.00 | 82.30 | 786.00 | 166.40 | 11360 | 5.60 | 961 | 1379 | 合格 |
| 6 | 221.7 | 4.88 | 1836 | 0.011 | 94.80 | 0.12 | 1.97 | 5.51 | 2.05 | 31.90 | 10.87 | 142.30 | 59.80 | 297.00 | 67.50 | 640.00 | 133.80 | 11110 | 3.17 | 850 | 917 | 合格 |
| 7 | 216.3 | 4.81 | 2480 | 0.078 | 181.00 | 0.54 | 8.16 | 14.00 | 4.57 | 61.70 | 19.20 | 219.00 | 80.80 | 396.00 | 86.00 | 772.00 | 155.30 | 11720 | 4.12 | 2570 | 1781 | 合格 |
| 8 | 217.8 | 4.47 | 1605 | 0.001 | 77.60 | 0.10 | 1.64 | 4.55 | 1.75 | 26.90 | 9.10 | 121.00 | 50.60 | 272.70 | 64.30 | 624.00 | 130.50 | 11310 | 3.36 | 894 | 983 | 合格 |
| 9 | 216.4 | 3.16 | 1205 | 0.274 | 45.10 | 0.15 | 1.17 | 2.43 | 1.19 | 17.40 | 6.28 | 84.20 | 36.70 | 203.30 | 50.10 | 521.00 | 113.20 | 11110 | 2.84 | 491 | 775 | 2 |
| 10 | 216.0 | 2.76 | 958 | 0.000 | 33.30 | 0.04 | 0.74 | 1.98 | 0.84 | 12.55 | 4.71 | 61.90 | 29.00 | 160.70 | 40.30 | 411.00 | 95.00 | 11390 | 2.15 | 351 | 608 | 合格 |
| 11 | 221.2 | 2.87 | 1111 | 0.000 | 37.80 | 0.06 | 1.09 | 2.69 | 1.05 | 17.70 | 6.20 | 83.60 | 34.10 | 181.90 | 43.10 | 427.00 | 100.90 | 11360 | 2.83 | 617 | 960 | 合格 |
| 12 | 215.6 | 2.92 | 1054 | 0.000 | 43.40 | 0.05 | 0.67 | 2.20 | 0.81 | 14.45 | 5.23 | 74.40 | 32.30 | 180.80 | 44.30 | 436.00 | 96.40 | 12160 | 2.82 | 574 | 854 | 合格 |
| 13 | 217.0 | 3.22 | 1388 | 0.000 | 49.60 | 0.03 | 0.86 | 2.44 | 0.98 | 18.10 | 6.66 | 98.40 | 42.20 | 229.90 | 58.10 | 604.00 | 131.00 | 11370 | 3.48 | 591 | 944 | 合格 |
| 14 | 219.6 | 3.43 | 1051 | 0.001 | 37.20 | 0.03 | 0.89 | 1.77 | 0.89 | 14.00 | 5.44 | 75.50 | 32.60 | 182.50 | 45.70 | 465.00 | 102.00 | 11410 | 2.42 | 448 | 765 | 合格 |
| 15 | 215.7 | 4.69 | 1586 | 0.028 | 117.60 | 0.23 | 3.71 | 7.17 | 2.71 | 39.10 | 12.04 | 135.60 | 50.40 | 249.00 | 56.30 | 522.00 | 104.70 | 11780 | 3.38 | 2560 | 1428 | 合格 |
| 16 | 219.7 | 2.86 | 968 | 0.000 | 50.90 | 0.05 | 1.11 | 2.70 | 1.09 | 15.10 | 5.40 | 73.10 | 29.50 | 158.40 | 37.70 | 389.00 | 84.40 | 11990 | 2.25 | 739 | 710 | 合格 |
| 17 | 220.3 | 2.93 | 1191 | 0.203 | 43.40 | 0.08 | 0.77 | 2.16 | 1.02 | 15.70 | 6.01 | 83.30 | 36.60 | 202.40 | 49.50 | 507.00 | 107.10 | 11330 | 2.62 | 502 | 785 | 2 |
| 18 | 217.9 | 3.65 | 1500 | 0.008 | 62.80 | 0.07 | 1.47 | 3.69 | 1.48 | 24.10 | 8.42 | 109.30 | 44.60 | 248.00 | 58.20 | 579.00 | 118.00 | 11420 | 3.26 | 888 | 1047 | 合格 |
| 19 | 219.4 | 2.74 | 1309 | 0.000 | 48.60 | 0.04 | 0.83 | 2.55 | 1.13 | 15.90 | 6.25 | 90.10 | 39.20 | 216.20 | 53.10 | 547.00 | 125.50 | 12560 | 3.40 | 873 | 1213 | 合格 |
| 20 | 217.0 | 6.67 | 1454 | 0.352 | 88.40 | 0.28 | 3.33 | 7.13 | 2.76 | 36.10 | 10.38 | 125.10 | 47.00 | 240.40 | 52.30 | 502.00 | 108.70 | 10710 | 3.22 | 1536 | 1311 | 2 |
| 平均值 |  |  | 3.72 | 1461 | 0.011 | 66.19 | 0.10 | 1.69 | 3.90 | 1.48 | 23.36 | 8.16 | 109.23 | 45.26 | 243.20 | 57.45 | 566.82 | 123.19 | 11677 | 3.31 | 932 | 1054 |  |
| 休瓦促二  长花岗岩 | XWC4-11 | 1 | 86.3 | 3.05 | 1195 | 0.045 | 35.30 | 0.15 | 1.87 | 4.39 | 0.50 | 23.30 | 7.69 | 98.50 | 37.70 | 185.70 | 42.80 | 399.00 | 80.00 | 11650 | 11.79 | 1089 | 1682 | 合格 |
| 2 | 86.9 | 3.18 | 1163 | 0.000 | 18.03 | 0.06 | 0.88 | 2.75 | 0.25 | 16.50 | 6.46 | 86.80 | 35.50 | 183.80 | 43.20 | 418.00 | 86.50 | 11440 | 11.44 | 485 | 1594 | 合格 |
| 3 | 86.7 | 2.39 | 1240 | 0.037 | 22.56 | 0.12 | 1.55 | 2.61 | 0.35 | 15.10 | 6.49 | 92.00 | 37.50 | 215.00 | 54.10 | 530.00 | 103.90 | 12270 | 24.50 | 465 | 2520 | 合格 |
| 4 | 86.7 | 5.30 | 1531 | 0.075 | 57.10 | 0.24 | 3.40 | 6.26 | 1.34 | 31.80 | 10.48 | 131.70 | 47.90 | 236.60 | 51.90 | 490.00 | 96.40 | 11010 | 12.79 | 1307 | 2149 | 合格 |
| 5 | 82.5 | 2.35 | 2880 | 0.117 | 27.60 | 0.19 | 2.21 | 6.10 | 0.32 | 39.30 | 15.96 | 215.00 | 88.50 | 465.00 | 106.00 | 1009.00 | 210.00 | 13300 | 29.80 | 1154 | 5150 | 1、2 |
| 6 | 87.0 | 2.38 | 696 | 0.002 | 16.00 | 0.04 | 0.64 | 1.92 | 0.24 | 13.60 | 4.70 | 58.10 | 22.30 | 110.60 | 24.20 | 227.00 | 45.50 | 11370 | 3.85 | 260 | 630 | 合格 |
| 7 | 83.8 | 2.02 | 1641 | 0.000 | 19.00 | 0.05 | 0.81 | 3.23 | 0.29 | 21.20 | 8.65 | 122.00 | 51.70 | 269.00 | 68.70 | 671.00 | 133.10 | 13000 | 23.20 | 596 | 2990 | 合格 |
| 8 | 87.0 | 2.68 | 1348 | 0.000 | 25.60 | 0.05 | 1.18 | 3.19 | 0.48 | 20.10 | 7.25 | 102.00 | 41.20 | 221.00 | 55.40 | 551.00 | 106.00 | 11280 | 14.50 | 614 | 2060 | 1 |
| 9 | 86.9 | 2.52 | 757 | 102.000 | 258.00 | 30.30 | 117.00 | 25.10 | 1.59 | 30.00 | 6.07 | 64.90 | 22.65 | 118.20 | 28.40 | 275.00 | 55.10 | 11390 | 7.62 | 255 | 860 | 1、2 |
| 10 | 86.6 | 2.93 | 1695 | 0.045 | 26.90 | 0.13 | 1.80 | 3.32 | 0.47 | 22.50 | 8.81 | 124.30 | 51.50 | 280.90 | 67.60 | 668.00 | 136.50 | 11960 | 20.60 | 722 | 3109 | 1 |
| 11 | 81.6 | 3.62 | 3300 | 0.335 | 49.30 | 0.59 | 6.06 | 9.54 | 0.79 | 52.30 | 19.59 | 252.40 | 100.10 | 519.00 | 120.00 | 1154.00 | 230.30 | 13080 | 44.10 | 1425 | 5990 | 1、2 |
| 12 | 83.4 | 2.03 | 1225 | 1.670 | 21.34 | 0.73 | 3.66 | 3.04 | 0.16 | 15.61 | 6.18 | 90.70 | 38.10 | 200.30 | 49.20 | 488.00 | 96.50 | 12710 | 21.81 | 478 | 2384 | 2 |
| 13 | 85.3 | 2.61 | 1297 | 58.300 | 166.00 | 20.60 | 84.00 | 21.60 | 0.73 | 33.20 | 9.01 | 103.10 | 39.40 | 199.50 | 48.10 | 476.00 | 91.40 | 12840 | 19.72 | 567 | 2397 | 1 |
| 14 | 85.3 | 1.41 | 1199 | 0.043 | 14.44 | 0.05 | 0.70 | 1.41 | 0.11 | 13.04 | 5.61 | 86.10 | 35.80 | 196.40 | 50.60 | 519.00 | 102.50 | 13810 | 25.60 | 367 | 2566 | 合格 |
| 15 | 85.8 | 2.95 | 1052 | 0.032 | 16.10 | 0.07 | 0.67 | 2.57 | 0.25 | 16.50 | 6.02 | 84.50 | 32.80 | 172.00 | 41.90 | 384.00 | 80.10 | 11900 | 9.00 | 493 | 1437 | 1 |
| 16 | 85.4 | 2.26 | 1363 | 0.017 | 33.60 | 0.10 | 1.62 | 3.36 | 0.53 | 21.00 | 7.50 | 105.60 | 42.10 | 223.10 | 53.20 | 539.00 | 109.50 | 12620 | 22.00 | 672 | 2415 | 合格 |
| 17 | 86.9 | 2.07 | 1060 | 0.115 | 13.53 | 0.05 | 0.50 | 1.74 | 0.09 | 11.30 | 5.03 | 72.80 | 30.90 | 166.50 | 41.60 | 445.00 | 87.40 | 13710 | 26.00 | 397 | 2351 | 2 |
| 18 | 85.2 | 3.90 | 2970 | 0.099 | 120.60 | 0.82 | 11.50 | 18.10 | 2.04 | 79.90 | 25.90 | 299.00 | 99.70 | 453.00 | 89.00 | 764.00 | 131.80 | 9030 | 11.82 | 2520 | 2122 | 合格 |
| 19 | 86.4 | 3.64 | 1750 | 0.077 | 28.70 | 0.15 | 1.66 | 4.20 | 0.41 | 24.80 | 9.70 | 129.50 | 52.50 | 269.00 | 65.80 | 666.00 | 124.80 | 11200 | 12.90 | 851 | 2500 | 合格 |
| 20 | 85.6 | 2.98 | 2001 | 9.600 | 49.30 | 3.11 | 13.60 | 7.09 | 0.52 | 29.50 | 10.83 | 152.30 | 60.50 | 318.00 | 76.00 | 766.00 | 150.80 | 12890 | 31.40 | 786 | 4060 | 2 |
| 平均值 |  |  | 2.95 | 1475 | 0.040 | 36.53 | 0.18 | 2.46 | 4.82 | 0.61 | 26.02 | 9.32 | 120.93 | 46.27 | 234.22 | 54.35 | 522.30 | 101.40 | 11740 | 15.99 | 861 | 2117 |  |
| 铜厂沟花  岗闪长斑  岩 | TCG16 | 1 | 86.4 | 4.37 | 1073 | 0.063 | 53.20 | 0.11 | 1.45 | 3.99 | 1.74 | 22.40 | 7.56 | 89.50 | 33.60 | 167.90 | 35.90 | 355.00 | 79.30 | 10670 | 1.92 | 544 | 963 | 合格 |
| 2 | 85.4 | 3.57 | 925 | 0.027 | 46.70 | 0.09 | 1.39 | 3.23 | 1.62 | 19.40 | 6.26 | 74.70 | 28.19 | 139.40 | 30.70 | 304.00 | 68.90 | 11150 | 1.65 | 678 | 1187 | 合格 |
| 3 | 85.3 | 2.30 | 480 | 0.000 | 25.33 | 0.03 | 0.46 | 1.35 | 0.69 | 7.74 | 2.80 | 35.80 | 14.78 | 76.80 | 17.12 | 181.10 | 43.90 | 11430 | 1.05 | 411 | 926 | 合格 |
| 4 | 85.9 | 2.92 | 811 | 0.027 | 32.00 | 0.05 | 0.59 | 1.39 | 0.97 | 12.16 | 4.27 | 55.20 | 23.54 | 126.20 | 29.50 | 320.00 | 76.80 | 11330 | 1.30 | 409 | 994 | 合格 |
| 5 | 86.6 | 4.26 | 1462 | 0.053 | 91.50 | 0.21 | 3.99 | 7.09 | 2.91 | 37.90 | 11.46 | 131.90 | 48.20 | 221.60 | 45.30 | 425.00 | 91.10 | 10510 | 2.89 | 1372 | 1635 | 合格 |
| 6 | 86.7 | 3.85 | 1014 | 0.000 | 41.70 | 0.07 | 0.96 | 3.17 | 1.70 | 17.10 | 6.11 | 77.90 | 31.10 | 158.60 | 34.60 | 350.00 | 80.80 | 10970 | 1.53 | 504 | 1050 | 合格 |
| 7 | 85.1 | 2.79 | 565 | 0.106 | 30.10 | 0.07 | 1.09 | 2.34 | 0.98 | 11.10 | 3.74 | 39.60 | 17.04 | 87.00 | 19.40 | 200.20 | 48.70 | 11790 | 1.49 | 541 | 1085 | 2 |
| 8 | 86.7 | 1.71 | 538 | 0.000 | 13.37 | 0.02 | 0.28 | 0.91 | 0.63 | 7.95 | 2.85 | 35.80 | 15.51 | 83.50 | 19.37 | 201.00 | 46.80 | 12100 | 1.42 | 147 | 647 | 合格 |
| 9 | 87.0 | 2.73 | 864 | 0.128 | 30.20 | 0.15 | 1.57 | 2.73 | 1.30 | 13.96 | 4.80 | 59.90 | 25.99 | 134.40 | 31.20 | 326.50 | 80.00 | 11290 | 1.37 | 422 | 996 | 2 |

续上表

| 岩石 | 样号 | 分析编号 | 年龄/Ma | Ti | Y | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Hf | Ta | Th | U | 数据筛选及剔除 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | TCG16 | 10 | 85.8 | 3.34 | 693 | 0.012 | 39.30 | 0.07 | 1.24 | 2.49 | 1.02 | 13.50 | 4.33 | 53.60 | 21.24 | 111.10 | 24.95 | 255.00 | 60.40 | 11270 | 1.44 | 624 | 1142 | 合格 |
|  | 11 | 86.3 | 3.21 | 787 | 0.037 | 45.90 | 0.09 | 1.40 | 2.62 | 1.37 | 16.00 | 5.00 | 63.80 | 24.23 | 120.30 | 26.14 | 268.20 | 58.80 | 10980 | 1.81 | 532 | 964 | 合格 |
| 铜厂沟花  岗闪长斑  岩 | 12 | 85.8 | 2.80 | 714 | 0.002 | 24.60 | 0.06 | 1.14 | 2.12 | 1.11 | 13.32 | 4.11 | 53.00 | 21.19 | 106.70 | 25.64 | 266.70 | 62.50 | 11410 | 1.06 | 315 | 751 | 合格 |
| 13 | 87.9 | 2.39 | 730 | 0.028 | 30.50 | 0.05 | 0.89 | 1.94 | 1.21 | 12.14 | 4.32 | 55.00 | 22.69 | 117.80 | 27.08 | 278.40 | 66.30 | 11410 | 1.18 | 388 | 832 | 合格 |
| 14 | 87.1 | 4.98 | 599 | 1.290 | 32.90 | 0.35 | 2.04 | 2.54 | 1.19 | 11.40 | 3.71 | 47.50 | 18.10 | 91.80 | 20.20 | 209.00 | 48.60 | 10730 | 1.34 | 361 | 736 | 2 |
| 15 | 86.1 | 3.13 | 1033 | 0.049 | 47.00 | 0.10 | 1.39 | 3.10 | 1.63 | 18.60 | 6.08 | 75.90 | 30.40 | 154.40 | 33.90 | 355.00 | 84.30 | 11640 | 1.74 | 883 | 1466 | 合格 |
| 16 | 86.8 | 2.84 | 793 | 0.031 | 29.50 | 0.06 | 1.02 | 2.02 | 1.15 | 13.66 | 4.66 | 58.90 | 23.70 | 120.10 | 28.10 | 281.40 | 65.50 | 11270 | 1.31 | 380 | 900 | 合格 |
| 17 | 88.3 | 2.91 | 811 | 0.022 | 27.90 | 0.06 | 0.97 | 2.56 | 1.29 | 13.96 | 4.53 | 60.90 | 24.40 | 129.40 | 29.90 | 315.00 | 74.00 | 11130 | 1.07 | 400 | 958 | 合格 |
| 18 | 87.2 | 2.71 | 759 | 0.041 | 35.60 | 0.07 | 1.11 | 2.23 | 1.00 | 12.15 | 4.17 | 51.70 | 21.02 | 114.70 | 26.24 | 288.50 | 67.90 | 11530 | 1.49 | 577 | 1132 | 合格 |
| 19 | 86.9 | 3.29 | 785 | 0.101 | 25.85 | 0.05 | 0.68 | 1.83 | 1.12 | 12.68 | 4.80 | 58.50 | 23.05 | 119.80 | 27.23 | 282.00 | 62.20 | 10890 | 1.85 | 258 | 745 | 2 |
| 20 | 84.3 | 3.86 | 882 | 0.021 | 41.70 | 0.07 | 1.24 | 2.56 | 1.55 | 16.50 | 5.59 | 67.20 | 26.71 | 134.00 | 29.72 | 299.10 | 70.70 | 10960 | 1.55 | 703 | 1268 | 合格 |
| TCG21 | 1 | 86.1 | 2.12 | 640 | 0.024 | 17.72 | 0.05 | 0.80 | 1.78 | 0.94 | 10.00 | 3.33 | 45.00 | 17.92 | 103.20 | 23.85 | 258.00 | 65.40 | 11450 | 0.79 | 241 | 730 | 合格 |
| 2 | 87.1 | 3.10 | 912 | 0.000 | 38.00 | 0.05 | 0.88 | 2.01 | 0.98 | 12.90 | 4.99 | 62.50 | 25.80 | 140.50 | 33.10 | 343.00 | 79.20 | 11190 | 1.97 | 402 | 976 | 合格 |
| 3 | 86.6 | 3.18 | 933 | 0.026 | 43.00 | 0.10 | 1.33 | 3.51 | 1.42 | 18.20 | 6.03 | 74.70 | 29.30 | 146.00 | 32.00 | 320.00 | 72.10 | 10860 | 1.61 | 514 | 908 | 合格 |
| 4 | 85.3 | 4.86 | 1365 | 0.232 | 48.50 | 0.10 | 1.32 | 3.20 | 1.80 | 23.80 | 8.32 | 108.70 | 41.60 | 203.30 | 43.70 | 423.00 | 96.30 | 11380 | 3.01 | 638 | 1408 | 2 |
| 5 | 85.0 | 4.20 | 904 | 0.600 | 43.00 | 0.21 | 2.47 | 2.83 | 1.52 | 18.10 | 5.79 | 72.70 | 27.80 | 141.00 | 32.20 | 328.00 | 73.40 | 10850 | 1.46 | 536 | 951 | 2 |
| 6 | 86.4 | 3.87 | 803 | 0.000 | 39.10 | 0.07 | 1.23 | 2.66 | 1.31 | 14.79 | 4.86 | 61.60 | 24.04 | 122.90 | 27.90 | 293.00 | 65.50 | 11250 | 1.72 | 516 | 993 | 合格 |
| 7 | 88.2 | 3.61 | 900 | 0.292 | 36.10 | 0.22 | 1.80 | 3.04 | 1.62 | 16.80 | 5.77 | 72.20 | 27.50 | 136.50 | 30.20 | 313.00 | 70.40 | 11320 | 2.03 | 461 | 1008 | 2 |
| 8 | 86.6 | 3.54 | 953 | 0.002 | 41.90 | 0.06 | 1.21 | 3.14 | 1.62 | 17.80 | 6.20 | 77.60 | 29.16 | 145.10 | 32.49 | 334.00 | 73.10 | 11090 | 1.96 | 693 | 1346 | 合格 |
| 9 | 87.9 | 2.61 | 686 | 0.000 | 28.33 | 0.03 | 0.45 | 1.51 | 0.81 | 10.42 | 3.94 | 48.10 | 19.41 | 104.80 | 24.59 | 263.70 | 62.60 | 11720 | 1.25 | 449 | 1063 | 合格 |
| 10 | 88.1 | 5.65 | 1221 | 0.048 | 56.50 | 0.32 | 4.42 | 7.26 | 3.32 | 31.00 | 9.39 | 108.00 | 38.00 | 175.00 | 38.50 | 377.00 | 80.80 | 10450 | 1.93 | 571 | 823 | 合格 |
| 11 | 87.2 | 4.76 | 1212 | 0.076 | 57.50 | 0.15 | 2.29 | 4.91 | 2.21 | 25.90 | 8.64 | 106.20 | 39.00 | 182.00 | 39.30 | 384.00 | 80.80 | 10650 | 3.02 | 733 | 1118 | 合格 |
| 12 | 86.0 | 2.84 | 723 | 0.017 | 33.60 | 0.05 | 1.09 | 2.85 | 1.34 | 15.18 | 5.05 | 60.50 | 23.48 | 110.60 | 24.33 | 237.70 | 53.10 | 11170 | 2.04 | 546 | 964 | 合格 |
| 13 | 86.8 | 4.00 | 1155 | 0.218 | 81.80 | 0.39 | 4.71 | 6.57 | 2.90 | 32.50 | 9.37 | 107.70 | 37.20 | 174.90 | 37.50 | 349.00 | 74.50 | 11250 | 2.13 | 1256 | 1166 | 2 |
| 14 | 87.0 | 2.25 | 602 | 0.007 | 23.60 | 0.03 | 0.62 | 1.18 | 0.76 | 8.75 | 3.48 | 41.90 | 17.46 | 92.00 | 22.86 | 240.10 | 58.00 | 11570 | 1.29 | 254 | 692 | 合格 |
| 15 | 87.5 | 3.46 | 650 | 0.080 | 32.60 | 0.08 | 1.11 | 2.04 | 0.88 | 12.07 | 3.92 | 49.20 | 18.37 | 96.80 | 22.66 | 235.70 | 57.20 | 11480 | 1.28 | 557 | 938 | 合格 |
| 16 | 85.7 | 2.90 | 605 | 0.154 | 26.50 | 0.06 | 0.77 | 1.68 | 0.85 | 10.70 | 3.34 | 43.50 | 17.80 | 92.80 | 21.90 | 230.30 | 55.10 | 11920 | 1.42 | 464 | 940 | 2 |
| 17 | 89.3 | 3.18 | 960 | 0.051 | 39.60 | 0.11 | 1.70 | 3.34 | 1.59 | 19.60 | 6.17 | 74.90 | 28.42 | 143.10 | 32.70 | 337.00 | 77.90 | 11030 | 1.55 | 559 | 1063 | 合格 |
| 18 | 86.2 | 4.92 | 1360 | 0.000 | 69.80 | 0.09 | 1.83 | 4.38 | 2.44 | 29.70 | 9.54 | 122.40 | 43.80 | 217.00 | 45.00 | 444.00 | 91.50 | 10950 | 2.66 | 818 | 1420 | 合格 |
| 19 | 87.5 | 3.63 | 972 | 0.000 | 35.50 | 0.09 | 1.17 | 2.61 | 1.33 | 16.90 | 6.12 | 75.20 | 29.30 | 152.50 | 34.50 | 353.00 | 80.00 | 11010 | 1.33 | 384 | 870 | 合格 |
| 20 | 85.9 | 4.09 | 1130 | 0.019 | 52.50 | 0.08 | 1.43 | 3.57 | 1.93 | 23.20 | 7.24 | 86.00 | 33.60 | 165.30 | 37.30 | 378.00 | 85.60 | 10880 | 1.84 | 741 | 1376 | 合格 |
| 平均值 |  |  | 3.33 | 879 | 0.025 | 39.84 | 0.08 | 1.33 | 2.89 | 1.43 | 16.80 | 5.58 | 68.86 | 26.70 | 134.82 | 30.17 | 307.79 | 70.35 | 11178 | 1.63 | 543 | 1035 |  |
| 热林二长  花岗岩 | RL1 | 1 | 80.7 | 2.34 | 842 | 0.013 | 19.50 | 0.04 | 0.81 | 2.19 | 0.56 | 13.20 | 4.59 | 62.10 | 24.30 | 134.70 | 32.10 | 362.00 | 73.60 | 11940 | 4.36 | 365 | 1932 | 合格 |
| 2 | 82.4 | 2.29 | 960 | 0.590 | 26.90 | 0.35 | 2.19 | 3.27 | 0.89 | 18.30 | 5.74 | 73.30 | 27.80 | 142.00 | 32.90 | 391.00 | 70.70 | 11070 | 3.18 | 420 | 1734 | 1 |
| 3 | 82.5 | 2.09 | 954 | 14.000 | 51.20 | 3.57 | 14.40 | 4.35 | 1.08 | 18.40 | 5.32 | 75.20 | 28.90 | 152.40 | 37.20 | 398.00 | 83.50 | 12310 | 3.50 | 455 | 2176 | 2 |
| 4 | 73.5 | 2.34 | 2150 | 0.070 | 75.90 | 0.44 | 5.64 | 11.00 | 2.39 | 52.10 | 17.70 | 198.00 | 65.10 | 322.00 | 69.70 | 645.00 | 123.50 | 11670 | 5.90 | 1350 | 3330 | 1 |
| 5 | 81.0 | 2.19 | 1334 | 0.019 | 28.90 | 0.16 | 3.04 | 5.49 | 1.31 | 28.80 | 9.46 | 117.20 | 42.00 | 206.00 | 47.30 | 454.00 | 97.60 | 11390 | 3.48 | 632 | 2268 | 合格 |
| 6 | 47.1 | 77.30 | 2310 | 43.400 | 334.00 | 51.70 | 270.00 | 93.10 | 110.00 | 130.30 | 25.50 | 221.00 | 67.80 | 289.00 | 56.80 | 490.00 | 91.10 | 10880 | 6.10 | 1960 | 3570 | 1、2 |
| 7 | 82.1 | 2.70 | 952 | 34.500 | 98.70 | 8.97 | 30.30 | 7.68 | 1.42 | 19.00 | 5.86 | 69.80 | 27.20 | 147.70 | 35.20 | 388.00 | 83.90 | 12110 | 4.77 | 416 | 2079 | 2 |
| 8 | 81.6 | 30.10 | 1903 | 25.600 | 156.00 | 9.00 | 38.80 | 14.30 | 2.62 | 45.20 | 14.14 | 161.30 | 60.90 | 288.00 | 60.30 | 581.00 | 106.70 | 10110 | 4.69 | 1144 | 2208 | 2 |
| 9 | 78.9 | 9.00 | 1195 | 1.660 | 53.00 | 1.95 | 11.00 | 6.31 | 2.88 | 25.10 | 8.41 | 98.00 | 37.20 | 180.00 | 40.00 | 382.00 | 77.30 | 11080 | 5.46 | 875 | 2640 | 2 |
| 10 | 80.2 | 4.85 | 891 | 4.480 | 58.80 | 3.62 | 19.90 | 10.90 | 3.55 | 23.60 | 7.06 | 75.00 | 27.40 | 137.00 | 30.50 | 320.00 | 67.10 | 11500 | 3.67 | 586 | 1399 | 2 |
| 11 | 81.3 | 3.93 | 1071 | 0.128 | 33.10 | 0.16 | 2.05 | 3.31 | 0.88 | 18.90 | 7.07 | 85.90 | 33.80 | 167.00 | 37.00 | 370.00 | 73.20 | 10970 | 5.14 | 465 | 1730 | 2 |
| 12 | 81.2 | 3.13 | 959 | 0.056 | 26.50 | 0.12 | 1.48 | 2.93 | 0.89 | 18.00 | 6.10 | 75.00 | 29.30 | 155.30 | 36.10 | 373.00 | 80.70 | 11600 | 4.30 | 455 | 2022 | 合格 |
| 13 | 81.1 | 5.13 | 709 | 1.650 | 34.70 | 1.57 | 8.52 | 4.83 | 1.76 | 13.94 | 4.73 | 54.00 | 21.29 | 111.80 | 26.10 | 267.00 | 57.50 | 12220 | 3.33 | 554 | 1902 | 2 |
| 14 | 78.8 | 12.70 | 1477 | 2.750 | 115.30 | 4.28 | 27.30 | 23.00 | 6.94 | 55.60 | 15.27 | 151.30 | 47.80 | 212.80 | 44.10 | 395.00 | 74.30 | 10750 | 6.57 | 1850 | 2340 | 1、2 |
| 15 | 84.5 | 2.60 | 717 | 0.449 | 30.40 | 0.23 | 1.64 | 2.31 | 0.76 | 12.78 | 4.19 | 53.30 | 21.96 | 111.50 | 25.81 | 276.00 | 58.90 | 12150 | 3.71 | 616 | 1930 | 2 |
| 16 | 81.5 | 3.41 | 976 | 0.516 | 40.00 | 0.41 | 2.97 | 3.43 | 1.05 | 17.20 | 6.19 | 77.10 | 29.30 | 150.00 | 33.50 | 341.00 | 70.60 | 12040 | 5.62 | 772 | 2364 | 2 |
| 17 | 79.4 | 5.48 | 774 | 10.800 | 56.10 | 5.24 | 22.10 | 9.80 | 2.57 | 21.10 | 6.56 | 70.60 | 24.05 | 115.50 | 26.70 | 279.80 | 60.70 | 12510 | 3.60 | 697 | 2273 | 2 |
| 18 | 81.1 | 2.27 | 587 | 0.040 | 16.90 | 0.06 | 0.74 | 1.67 | 0.47 | 9.72 | 3.68 | 45.50 | 19.00 | 95.40 | 22.00 | 212.00 | 45.50 | 10870 | 2.96 | 228 | 1103 | 合格 |
| 19 | 81.3 | 4.22 | 760 | 1.570 | 41.50 | 2.48 | 16.30 | 6.50 | 3.87 | 18.20 | 5.24 | 60.60 | 23.60 | 114.90 | 26.40 | 261.00 | 51.40 | 12180 | 4.07 | 654 | 1749 | 2 |
| 20 | 82.8 | 3.14 | 926 | 36.700 | 115.50 | 11.70 | 43.70 | 12.10 | 1.56 | 22.80 | 6.54 | 74.50 | 28.00 | 145.50 | 31.40 | 313.00 | 66.30 | 10990 | 4.28 | 568 | 1986 | 2 |
| RL3 | 1 | 82.0 | 2.61 | 791 | 0.395 | 24.10 | 0.13 | 1.06 | 2.43 | 0.45 | 13.60 | 4.45 | 57.40 | 23.60 | 123.10 | 29.70 | 299.00 | 66.20 | 11760 | 3.96 | 464 | 2022 | 2 |
| 2 | 81.1 | 4.00 | 1308 | 0.760 | 52.00 | 0.98 | 6.84 | 6.80 | 2.26 | 30.60 | 9.70 | 121.00 | 41.90 | 198.00 | 42.90 | 395.00 | 73.90 | 10800 | 5.15 | 1055 | 2260 | 2 |
| 3 | 83.0 | 1.86 | 700 | 0.025 | 18.30 | 0.05 | 0.87 | 2.25 | 0.60 | 12.20 | 4.40 | 50.00 | 20.00 | 113.30 | 26.30 | 269.00 | 55.00 | 11850 | 3.61 | 350 | 1574 | 合格 |
| 4 | 82.9 | 3.50 | 1390 | 0.047 | 45.50 | 0.12 | 1.66 | 3.92 | 0.81 | 21.90 | 9.35 | 108.60 | 44.40 | 231.00 | 50.90 | 513.00 | 103.50 | 11080 | 6.10 | 765 | 2740 | 合格 |
| 5 | 77.6 | 7.23 | 1868 | 3.260 | 110.50 | 4.39 | 26.20 | 21.40 | 6.38 | 59.80 | 17.50 | 185.20 | 58.90 | 272.00 | 53.30 | 475.00 | 88.00 | 10420 | 5.25 | 1360 | 1955 | 2 |
| 6 | 82.0 | 2.71 | 916 | 0.435 | 37.20 | 0.16 | 1.50 | 3.81 | 0.79 | 16.50 | 5.59 | 77.60 | 28.10 | 139.40 | 30.70 | 315.00 | 61.20 | 10360 | 3.50 | 461 | 1400 | 2 |
| 7 | 81.3 | 4.35 | 1752 | 1.050 | 52.00 | 1.39 | 9.09 | 10.80 | 2.52 | 41.90 | 14.25 | 170.50 | 60.80 | 276.00 | 64.70 | 601.00 | 114.20 | 11710 | 5.43 | 1009 | 3510 | 2 |
| 8 | 81.7 | 4.59 | 607 | 1.757 | 27.46 | 1.90 | 9.91 | 5.34 | 1.30 | 14.47 | 4.60 | 50.50 | 18.85 | 88.60 | 20.70 | 206.50 | 44.70 | 11960 | 2.96 | 347 | 1236 | 2 |
| 9 | 80.8 | 4.20 | 1184 | 0.111 | 35.10 | 0.14 | 2.01 | 3.77 | 0.96 | 20.90 | 7.75 | 96.80 | 37.10 | 181.80 | 39.80 | 406.00 | 82.30 | 10420 | 4.44 | 630 | 2027 | 2 |
| 10 | 80.1 | 4.12 | 1075 | 0.417 | 42.80 | 0.45 | 3.21 | 4.30 | 1.23 | 21.30 | 7.31 | 89.30 | 33.50 | 165.80 | 36.80 | 356.00 | 76.70 | 11030 | 3.86 | 669 | 2012 | 2 |
| 11 | 82.6 | 4.43 | 1501 | 18.100 | 113.00 | 5.13 | 24.90 | 11.50 | 2.66 | 40.70 | 12.31 | 137.30 | 48.10 | 219.00 | 45.90 | 432.00 | 84.00 | 11360 | 4.44 | 1360 | 2221 | 2 |
| 12 | 81.1 | 4.45 | 1085 | 1.230 | 54.50 | 1.21 | 7.40 | 6.30 | 1.68 | 26.50 | 8.11 | 97.10 | 37.00 | 169.80 | 37.40 | 362.00 | 74.20 | 11160 | 4.95 | 935 | 1979 | 2 |
| 13 | 80.8 | 2.71 | 677 | 0.010 | 21.00 | 0.03 | 0.41 | 1.35 | 0.56 | 11.09 | 3.85 | 49.00 | 20.24 | 110.20 | 25.70 | 250.00 | 56.10 | 11080 | 3.35 | 284 | 1249 | 合格 |
| 14 | 78.7 | 5.62 | 1139 | 1.400 | 36.90 | 1.73 | 10.46 | 9.70 | 3.14 | 31.90 | 9.87 | 115.00 | 37.70 | 175.60 | 36.60 | 336.00 | 70.00 | 10760 | 3.10 | 774 | 1857 | 1、2 |
| 15 | 79.9 | 7.34 | 1116 | 0.242 | 42.50 | 0.46 | 4.28 | 6.11 | 1.62 | 28.50 | 9.69 | 111.30 | 37.60 | 180.60 | 38.40 | 346.00 | 68.30 | 9720 | 3.96 | 759 | 1762 | 2 |
| 16 | 68.6 | 6.50 | 1290 | 0.990 | 66.40 | 0.93 | 5.43 | 7.00 | 1.79 | 27.40 | 9.18 | 114.00 | 41.50 | 205.00 | 44.30 | 444.00 | 85.90 | 11820 | 3.84 | 1630 | 3040 | 1、2 |
| 17 | 83.5 | 2.35 | 790 | 0.064 | 39.20 | 0.16 | 1.72 | 2.87 | 1.08 | 14.33 | 5.03 | 61.20 | 23.40 | 123.30 | 28.00 | 281.00 | 61.20 | 11830 | 2.83 | 655 | 1783 | 合格 |
| 18 | 80.9 | 2.34 | 578 | 0.009 | 15.53 | 0.03 | 0.42 | 1.14 | 0.38 | 8.06 | 3.18 | 42.60 | 16.96 | 89.90 | 22.28 | 231.40 | 53.30 | 11620 | 2.81 | 264 | 1321 | 合格 |
| 19 | 81.6 | 3.15 | 852 | 26.400 | 99.90 | 6.88 | 24.30 | 6.68 | 1.24 | 19.50 | 5.96 | 67.90 | 26.45 | 128.90 | 29.50 | 291.00 | 62.40 | 11640 | 4.32 | 894 | 1922 | 2 |
| 20 | 80.2 | 3.23 | 1090 | 0.237 | 31.60 | 0.39 | 2.66 | 3.97 | 1.12 | 19.10 | 6.74 | 84.90 | 34.60 | 174.30 | 42.10 | 417.00 | 93.40 | 11620 | 5.36 | 577 | 2433 | 2 |
| 平均值 | |  | 2.52 | 873 | 0.031 | 25.70 | 0.09 | 1.24 | 2.65 | 0.74 | 15.26 | 5.52 | 67.91 | 26.62 | 139.90 | 32.30 | 327.27 | 69.61 | 11473 | 3.76 | 444 | 1777 |  |

注：“数据筛选及剔除”一项中，“1”表示经锆石年龄筛选被剔除，“2”表示锆石La质量分数＞0.1×10-6被剔除；“平均值”一栏为合格数据的平均数值，未包含剔除数据。