附表1武功山杂岩高滩组含榴云母石英片岩19JX01-1.1碎屑锆石LA-ICP-MS U-Pb测年结果

Appendix Table 1.LA-ICP-MS analyses of 19JX01-1.1 detrital zircons from the garnet-bearing mica quartz schist of the Gaotan Formation in the Wugongshan Complex

| 分析点 | 含量（10-6） | | | | Th/U | 同位素比值 | | | | | | 同位素年龄(Ma) | | | | | | 谐和度 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PbTotal | PbCommon | 232Th | 238U | 207Pb/206Pb | 1σ | 207Pb/235U | 1σ | 206Pb/238U | 1σ | 207Pb/206Pb | 1σ | 207Pb/235U | 1σ | 206Pb/238U | 1σ |
| 19JX01-1.1-37 | 1078.59 | 4.84 | 574.55 | 886.69 | 0.65 | 0.3311 | 0.0087 | 33.5716 | 0.9918 | 0.721 | 0.0132 | 3622 | 40 | 3598 | 29 | 3500 | 49 | 97 |
| 19JX01-1.1-31 | 915.17 | 1.68 | 164.22 | 1382.66 | 0.12 | 0.1927 | 0.007 | 14.4279 | 0.4634 | 0.5305 | 0.0062 | 2765 | 59 | 2778 | 31 | 2743 | 26 | 99 |
| 19JX01-1.1-19 | 548.54 | 2.29 | 261.01 | 839.28 | 0.31 | 0.1912 | 0.0058 | 13.4784 | 0.3756 | 0.5002 | 0.0051 | 2753 | 50 | 2714 | 26 | 2615 | 22 | 95 |
| 19JX01-1.1-105 | 241.61 | 1.63 | 254.56 | 349.25 | 0.73 | 0.1766 | 0.0058 | 12.0234 | 0.3745 | 0.4864 | 0.0057 | 2621 | 55 | 2606 | 29 | 2555 | 25 | 97 |
| 19JX01-1.1-99 | 86.62 | 4.73 | 87.36 | 133.82 | 0.65 | 0.1726 | 0.0063 | 11.4921 | 0.3871 | 0.4754 | 0.0057 | 2583 | 61 | 2564 | 32 | 2507 | 25 | 97 |
| 19JX01-1.1-02 | 394.71 | 5.40 | 562.95 | 645.56 | 0.87 | 0.1652 | 0.0042 | 9.8852 | 0.2389 | 0.4292 | 0.0039 | 2510 | 44 | 2424 | 22 | 2302 | 18 | 91 |
| 19JX01-1.1-28 | 374.85 | 0.00 | 583.31 | 582.36 | 1.00 | 0.1645 | 0.0085 | 10.2892 | 0.4619 | 0.442 | 0.0073 | 2502 | 87 | 2461 | 42 | 2360 | 33 | 94 |
| 19JX01-1.1-101 | 266.35 | 4.00 | 418.23 | 407.06 | 1.03 | 0.1597 | 0.0045 | 10.128 | 0.2688 | 0.4517 | 0.0042 | 2453 | 48 | 2447 | 25 | 2403 | 19 | 98 |
| 19JX01-1.1-73 | 113.96 | 0.00 | 148.61 | 192.91 | 0.77 | 0.1584 | 0.0063 | 9.3928 | 0.3535 | 0.4219 | 0.0053 | 2438 | 68 | 2377 | 35 | 2269 | 24 | 93 |
| 19JX01-1.1-78 | 115.18 | 1.56 | 78.17 | 198.34 | 0.39 | 0.1573 | 0.0054 | 9.6671 | 0.3116 | 0.4356 | 0.0052 | 2428 | 57 | 2404 | 30 | 2331 | 23 | 96 |
| 19JX01-1.1-08 | 236.57 | 0.00 | 334.94 | 370.53 | 0.90 | 0.157 | 0.0048 | 9.6333 | 0.2704 | 0.4368 | 0.0047 | 2424 | 52 | 2400 | 26 | 2336 | 21 | 96 |
| 19JX01-1.1-46 | 109.32 | 0.00 | 134.06 | 180.43 | 0.74 | 0.1559 | 0.0044 | 9.6205 | 0.2583 | 0.4399 | 0.0046 | 2413 | 48 | 2399 | 25 | 2350 | 21 | 97 |
| 19JX01-1.1-92 | 118.21 | 2.39 | 151.47 | 200.53 | 0.76 | 0.1534 | 0.0044 | 9.1042 | 0.247 | 0.4254 | 0.0041 | 2384 | 44 | 2349 | 25 | 2285 | 18 | 96 |
| 19JX01-1.1-18 | 137.60 | 0.00 | 49.46 | 340.83 | 0.15 | 0.1233 | 0.004 | 5.793 | 0.1752 | 0.3338 | 0.0035 | 2006 | 58 | 1945 | 26 | 1857 | 17 | 92 |
| 19JX01-1.1-30 | 102.96 | 0.00 | 428.09 | 184.05 | 2.33 | 0.1182 | 0.0052 | 5.3147 | 0.2101 | 0.3187 | 0.0046 | 1931 | 79 | 1871 | 34 | 1783 | 23 | 92 |
| 19JX01-1.1-88 | 139.35 | 6.79 | 132.06 | 338.57 | 0.39 | 0.1099 | 0.0035 | 4.7482 | 0.1532 | 0.3103 | 0.0033 | 1798 | 58 | 1776 | 27 | 1742 | 16 | 97 |
| 19JX01-1.1-72 | 300.88 | 0.00 | 47.23 | 825.45 | 0.06 | 0.1085 | 0.0044 | 4.8112 | 0.1805 | 0.3152 | 0.0038 | 1776 | 74 | 1787 | 32 | 1766 | 19 | 99 |
| 19JX01-1.1-42 | 348.46 | 2.44 | 356.60 | 921.30 | 0.39 | 0.1053 | 0.0035 | 4.5221 | 0.1383 | 0.3058 | 0.0035 | 1720 | 66 | 1735 | 25 | 1720 | 17 | 100 |
| 19JX01-1.1-04 | 80.70 | 1.08 | 88.60 | 227.05 | 0.39 | 0.1039 | 0.0031 | 4.1961 | 0.1223 | 0.2893 | 0.0031 | 1695 | 56 | 1673 | 24 | 1638 | 15 | 97 |
| 19JX01-1.1-93 | 99.55 | 0.00 | 204.54 | 248.15 | 0.82 | 0.1019 | 0.0033 | 4.3494 | 0.1348 | 0.3059 | 0.0039 | 1659 | 60 | 1703 | 26 | 1720 | 19 | 96 |
| 19JX01-1.1-14 | 119.06 | 4.19 | 159.40 | 337.24 | 0.47 | 0.1015 | 0.0046 | 3.931 | 0.1666 | 0.2756 | 0.0039 | 1652 | 118 | 1620 | 34 | 1569 | 20 | 95 |
| 19JX01-1.1-22 | 128.90 | 0.90 | 260.77 | 360.36 | 0.72 | 0.0996 | 0.0039 | 3.7473 | 0.1317 | 0.2672 | 0.0033 | 1618 | 72 | 1582 | 28 | 1526 | 17 | 94 |
| 19JX01-1.1-98 | 81.20 | 3.15 | 161.93 | 227.19 | 0.71 | 0.0992 | 0.004 | 3.7705 | 0.141 | 0.2714 | 0.0033 | 1609 | 75 | 1586 | 30 | 1548 | 17 | 96 |
| 19JX01-1.1-74 | 131.06 | 0.00 | 160.75 | 351.48 | 0.46 | 0.0985 | 0.0037 | 4.0863 | 0.1454 | 0.2945 | 0.0034 | 1596 | 71 | 1652 | 29 | 1664 | 17 | 96 |
| 19JX01-1.1-65 | 71.06 | 1.47 | 145.13 | 196.92 | 0.74 | 0.0985 | 0.0039 | 3.7372 | 0.1393 | 0.2707 | 0.0034 | 1595 | 79 | 1579 | 30 | 1544 | 17 | 97 |
| 19JX01-1.1-82 | 96.15 | 0.00 | 172.48 | 266.81 | 0.65 | 0.0983 | 0.0029 | 3.6849 | 0.1063 | 0.2693 | 0.0029 | 1592 | 51 | 1568 | 23 | 1537 | 15 | 96 |
| 19JX01-1.1-03 | 101.03 | 2.24 | 103.11 | 305.85 | 0.34 | 0.0976 | 0.0026 | 3.6366 | 0.0944 | 0.2673 | 0.0027 | 1589 | 51 | 1558 | 21 | 1527 | 14 | 96 |
| 19JX01-1.1-67 | 123.34 | 0.00 | 190.97 | 355.16 | 0.54 | 0.0978 | 0.0039 | 3.705 | 0.1388 | 0.2698 | 0.0034 | 1583 | 75 | 1572 | 30 | 1540 | 17 | 97 |
| 19JX01-1.1-100 | 160.31 | 0.95 | 236.39 | 475.58 | 0.50 | 0.0969 | 0.0032 | 3.6268 | 0.1133 | 0.2668 | 0.003 | 1565 | 62 | 1555 | 25 | 1525 | 15 | 97 |
| 19JX01-1.1-106 | 60.23 | 1.13 | 131.47 | 160.80 | 0.82 | 0.0969 | 0.0039 | 3.7757 | 0.1486 | 0.2786 | 0.0039 | 1565 | 76 | 1588 | 32 | 1584 | 20 | 99 |
| 19JX01-1.1-13 | 107.47 | 0.13 | 114.97 | 329.73 | 0.35 | 0.0962 | 0.0039 | 3.5717 | 0.1321 | 0.2642 | 0.0033 | 1554 | 76 | 1543 | 29 | 1511 | 17 | 97 |
| 19JX01-1.1-49 | 173.00 | 0.00 | 296.61 | 449.46 | 0.66 | 0.0949 | 0.0033 | 3.9128 | 0.1315 | 0.2933 | 0.0031 | 1528 | 66 | 1616 | 27 | 1658 | 15 | 92 |
| 19JX01-1.1-76 | 20.48 | 1.75 | 35.07 | 66.21 | 0.53 | 0.0927 | 0.0047 | 3.1522 | 0.1572 | 0.2417 | 0.0039 | 1483 | 96 | 1446 | 38 | 1396 | 20 | 94 |
| 19JX01-1.1-86 | 71.70 | 2.28 | 131.72 | 241.65 | 0.55 | 0.0903 | 0.0034 | 2.9837 | 0.1131 | 0.2389 | 0.0036 | 1432 | 72 | 1403 | 29 | 1381 | 19 | 96 |
| 19JX01-1.1-75 | 216.72 | 3.48 | 460.74 | 725.25 | 0.64 | 0.09 | 0.0032 | 2.8931 | 0.0969 | 0.2283 | 0.0026 | 1426 | 64 | 1380 | 25 | 1326 | 14 | 92 |
| 19JX01-1.1-102 | 36.80 | 0.00 | 104.70 | 103.39 | 1.01 | 0.0896 | 0.0037 | 3.1985 | 0.1262 | 0.257 | 0.0035 | 1417 | 47 | 1457 | 31 | 1475 | 18 | 96 |
| 19JX01-1.1-57 | 196.85 | 4.62 | 336.99 | 576.91 | 0.58 | 0.0873 | 0.0034 | 3.0366 | 0.1114 | 0.2473 | 0.0032 | 1369 | 74 | 1417 | 28 | 1424 | 17 | 96 |
| 19JX01-1.1-80 | 88.65 | 0.25 | 138.39 | 293.07 | 0.47 | 0.0863 | 0.0026 | 2.8405 | 0.0821 | 0.2348 | 0.0024 | 1344 | 63 | 1366 | 22 | 1360 | 13 | 99 |
| 19JX01-1.1-36 | 61.63 | 1.21 | 32.58 | 239.05 | 0.14 | 0.0861 | 0.0032 | 2.6496 | 0.0942 | 0.2195 | 0.0026 | 1340 | 72 | 1315 | 26 | 1279 | 14 | 95 |
| 19JX01-1.1-104 | 309.11 | 0.00 | 26.33 | 1342.59 | 0.02 | 0.0829 | 0.0025 | 2.4041 | 0.0705 | 0.2066 | 0.0022 | 1278 | 60 | 1244 | 21 | 1211 | 12 | 94 |
| 19JX01-1.1-11 | 139.63 | 4.28 | 429.19 | 466.32 | 0.92 | 0.0827 | 0.0028 | 2.5199 | 0.0793 | 0.2173 | 0.0025 | 1263 | 67 | 1278 | 23 | 1268 | 13 | 100 |
| 19JX01-1.1-103 | 38.85 | 0.16 | 199.00 | 123.26 | 1.61 | 0.0814 | 0.0034 | 2.2387 | 0.0887 | 0.1993 | 0.0031 | 1231 | 82 | 1193 | 28 | 1172 | 16 | 95 |
| 19JX01-1.1-69 | 136.64 | 2.78 | 298.14 | 512.26 | 0.58 | 0.08 | 0.0036 | 2.336 | 0.0975 | 0.2081 | 0.0028 | 1198 | 89 | 1223 | 30 | 1219 | 15 | 98 |
| 19JX01-1.1-97 | 89.60 | 0.00 | 150.92 | 370.34 | 0.41 | 0.0801 | 0.0031 | 2.2444 | 0.0802 | 0.2004 | 0.0022 | 1198 | 76 | 1195 | 25 | 1177 | 12 | 98 |
| 19JX01-1.1-41 | 177.65 | 4.52 | 601.88 | 673.44 | 0.89 | 0.08 | 0.0025 | 2.1662 | 0.0633 | 0.1928 | 0.002 | 1196 | 62 | 1170 | 20 | 1137 | 11 | 95 |
| 19JX01-1.1-56 | 50.13 | 0.65 | 111.58 | 212.84 | 0.52 | 0.0789 | 0.0034 | 2.0958 | 0.0835 | 0.1905 | 0.0025 | 1169 | 84 | 1147 | 27 | 1124 | 14 | 96 |
| 19JX01-1.1-96 | 29.46 | 0.00 | 77.96 | 124.39 | 0.63 | 0.0779 | 0.0039 | 2.028 | 0.093 | 0.1885 | 0.0026 | 1144 | 99 | 1125 | 31 | 1113 | 14 | 97 |
| 19JX01-1.1-40 | 235.19 | 0.00 | 498.94 | 964.94 | 0.52 | 0.0771 | 0.0022 | 2.0912 | 0.0568 | 0.1931 | 0.0019 | 1124 | 62 | 1146 | 19 | 1138 | 10 | 99 |
| 19JX01-1.1-29 | 221.27 | 2.32 | 715.38 | 900.62 | 0.79 | 0.0755 | 0.0037 | 1.9614 | 0.0845 | 0.1837 | 0.0027 | 1083 | 94 | 1102 | 29 | 1087 | 15 | 100 |
| 19JX01-1.1-05 | 111.40 | 0.00 | 53.67 | 582.49 | 0.09 | 0.0752 | 0.002 | 1.7857 | 0.0465 | 0.1695 | 0.0016 | 1076 | 54 | 1040 | 17 | 1010 | 9 | 93 |
| 19JX01-1.1-90 | 51.59 | 3.85 | 49.65 | 233.48 | 0.21 | 0.075 | 0.0031 | 1.9746 | 0.0792 | 0.1892 | 0.0022 | 1069 | 83 | 1107 | 27 | 1117 | 12 | 96 |
| 19JX01-1.1-89 | 113.68 | 0.00 | 184.04 | 527.35 | 0.35 | 0.0742 | 0.0023 | 1.8342 | 0.0549 | 0.178 | 0.0018 | 1056 | 62 | 1058 | 20 | 1056 | 10 | 100 |
| 19JX01-1.1-27 | 55.14 | 0.90 | 41.44 | 278.05 | 0.15 | 0.074 | 0.0038 | 1.8233 | 0.083 | 0.1748 | 0.0026 | 1043 | 71 | 1054 | 30 | 1039 | 14 | 100 |
| 19JX01-1.1-66 | 63.46 | 0.00 | 393.88 | 260.39 | 1.51 | 0.0735 | 0.0032 | 1.6091 | 0.0663 | 0.1565 | 0.0021 | 1029 | 90 | 974 | 26 | 937 | 12 | 90 |
| 19JX01-1.1-64 | 69.30 | 0.00 | 248.36 | 322.25 | 0.77 | 0.0731 | 0.0029 | 1.6514 | 0.062 | 0.1611 | 0.0019 | 1018 | 49 | 990 | 24 | 963 | 10 | 94 |
| 19JX01-1.1-01 | 126.24 | 3.85 | 492.41 | 531.50 | 0.93 | 0.0726 | 0.0024 | 1.7592 | 0.0574 | 0.1741 | 0.002 | 1011 | 67 | 1031 | 21 | 1035 | 11 | 98 |
| 19JX01-1.1-44 | 227.64 | 2.02 | 659.57 | 975.26 | 0.68 | 0.0729 | 0.0023 | 1.9048 | 0.0574 | 0.1857 | 0.0021 | 1011 | 63 | 1083 | 20 | 1098 | 11 | 92 |
| 19JX01-1.1-91 | 120.88 | 0.00 | 273.95 | 614.38 | 0.45 | 0.0725 | 0.0021 | 1.6141 | 0.047 | 0.1596 | 0.0016 | 1011 | 58 | 976 | 18 | 954 | 9 | 94 |
| 19JX01-1.1-51 | 176.80 | 3.29 | 703.96 | 725.20 | 0.97 | 0.0698 | 0.0024 | 1.7245 | 0.0582 | 0.1755 | 0.0018 | 924 | 72 | 1018 | 22 | 1043 | 10 | 97 |
| 19JX01-1.1-68 | 221.82 | 2.10 | 924.78 | 891.26 | 1.04 | 0.0724 | 0.003 | 1.775 | 0.0687 | 0.1747 | 0.0022 | 996 | 85 | 1036 | 25 | 1038 | 12 | 99 |
| 19JX01-1.1-34 | 62.38 | 0.14 | 138.34 | 294.05 | 0.47 | 0.0687 | 0.0029 | 1.6601 | 0.0694 | 0.1715 | 0.0021 | 900 | 89 | 993 | 26 | 1020 | 12 | 97 |
| 19JX01-1.1-50 | 122.74 | 0.00 | 89.10 | 654.19 | 0.14 | 0.0667 | 0.0024 | 1.559 | 0.0546 | 0.1664 | 0.0018 | 828 | 76 | 954 | 22 | 992 | 10 | 96 |
| 19JX01-1.1-52 | 199.65 | 6.57 | 328.68 | 990.78 | 0.33 | 0.0678 | 0.0021 | 1.5836 | 0.0461 | 0.1662 | 0.0016 | 865 | 63 | 964 | 18 | 991 | 9 | 97 |
| 19JX01-1.1-25 | 66.51 | 0.00 | 281.18 | 299.35 | 0.94 | 0.0722 | 0.0032 | 1.6704 | 0.0692 | 0.1642 | 0.0023 | 992 | 92 | 997 | 26 | 980 | 13 | 98 |
| 19JX01-1.1-07 | 82.44 | 2.26 | 141.50 | 419.66 | 0.34 | 0.0712 | 0.0027 | 1.6169 | 0.0572 | 0.1622 | 0.0021 | 961 | 77 | 977 | 22 | 969 | 12 | 99 |
| 19JX01-1.1-48 | 116.64 | 0.42 | 191.63 | 613.24 | 0.31 | 0.0661 | 0.0023 | 1.498 | 0.0504 | 0.1611 | 0.0016 | 809 | 68 | 930 | 20 | 963 | 9 | 96 |
| 19JX01-1.1-85 | 267.40 | 2.32 | 101.79 | 1482.30 | 0.07 | 0.0715 | 0.0023 | 1.5894 | 0.0507 | 0.1604 | 0.0017 | 972 | 67 | 966 | 20 | 959 | 10 | 99 |
| 19JX01-1.1-79 | 224.52 | 2.81 | 204.92 | 1194.11 | 0.17 | 0.0707 | 0.0021 | 1.5851 | 0.0449 | 0.1594 | 0.0016 | 950 | 62 | 964 | 18 | 953 | 9 | 98 |
| 19JX01-1.1-55 | 58.56 | 0.00 | 191.56 | 284.24 | 0.67 | 0.0678 | 0.0028 | 1.5052 | 0.0584 | 0.1586 | 0.0019 | 861 | 83 | 932 | 24 | 949 | 10 | 98 |
| 19JX01-1.1-23 | 93.26 | 0.00 | 281.62 | 472.21 | 0.60 | 0.0721 | 0.0027 | 1.5868 | 0.0549 | 0.1559 | 0.0018 | 991 | 70 | 965 | 22 | 934 | 10 | 96 |
| 19JX01-1.1-62 | 220.08 | 0.00 | 256.33 | 1216.65 | 0.21 | 0.0699 | 0.0022 | 1.5113 | 0.0441 | 0.1539 | 0.0015 | 928 | 65 | 935 | 18 | 923 | 9 | 98 |
| 19JX01-1.1-109 | 54.87 | 2.00 | 150.32 | 289.72 | 0.52 | 0.0668 | 0.0025 | 1.4202 | 0.0501 | 0.1517 | 0.0018 | 831 | 76 | 897 | 21 | 911 | 10 | 98 |
| 19JX01-1.1-43 | 25.56 | 4.58 | 72.53 | 134.78 | 0.54 | 0.0686 | 0.0034 | 1.4483 | 0.0648 | 0.1515 | 0.0022 | 888 | 102 | 909 | 27 | 909 | 12 | 99 |
| 19JX01-1.1-39 | 51.91 | 1.57 | 157.80 | 279.00 | 0.57 | 0.0691 | 0.0023 | 1.4401 | 0.0439 | 0.1492 | 0.0017 | 902 | 67 | 906 | 18 | 897 | 10 | 98 |
| 19JX01-1.1-09 | 118.01 | 0.00 | 25.53 | 718.52 | 0.04 | 0.0695 | 0.0022 | 1.4331 | 0.0434 | 0.1467 | 0.0016 | 915 | 67 | 903 | 18 | 882 | 9 | 97 |
| 19JX01-1.1-47 | 195.41 | 2.67 | 859.80 | 1003.15 | 0.86 | 0.0648 | 0.0022 | 1.3145 | 0.0413 | 0.1448 | 0.0015 | 769 | 71 | 852 | 18 | 872 | 8 | 97 |
| 19JX01-1.1-53 | 76.08 | 0.00 | 253.50 | 407.93 | 0.62 | 0.0664 | 0.0022 | 1.3434 | 0.0435 | 0.1443 | 0.0017 | 820 | 70 | 865 | 19 | 869 | 9 | 99 |
| 19JX01-1.1-24 | 58.85 | 0.25 | 187.41 | 334.72 | 0.56 | 0.0671 | 0.0028 | 1.3283 | 0.0514 | 0.1404 | 0.0017 | 840 | 85 | 858 | 22 | 847 | 9 | 98 |
| 19JX01-1.1-58 | 164.52 | 0.00 | 45.48 | 1105.85 | 0.04 | 0.0658 | 0.0024 | 1.2786 | 0.0464 | 0.1381 | 0.0018 | 798 | 77 | 836 | 21 | 834 | 10 | 99 |
| 19JX01-1.1-20 | 24.23 | 0.00 | 151.22 | 129.94 | 1.16 | 0.0687 | 0.0038 | 1.2336 | 0.0658 | 0.1291 | 0.0021 | 900 | 113 | 816 | 30 | 783 | 12 | 95 |
| 19JX01-1.1-77 | 29.64 | 1.05 | 179.01 | 162.58 | 1.10 | 0.0671 | 0.0034 | 1.2051 | 0.0565 | 0.1289 | 0.002 | 843 | 106 | 803 | 26 | 781 | 11 | 97 |
| 19JX01-1.1-108 | 26.12 | 1.42 | 228.21 | 129.99 | 1.76 | 0.0687 | 0.0049 | 1.1656 | 0.0711 | 0.125 | 0.0022 | 889 | 142 | 785 | 33 | 759 | 13 | 96 |
| 19JX01-1.1-32 | 210.30 | 0.41 | 193.42 | 1622.43 | 0.12 | 0.0647 | 0.0023 | 1.0375 | 0.0339 | 0.1139 | 0.0014 | 765 | 76 | 723 | 17 | 695 | 8 | 96 |
| 19JX01-1.1-59 | 46.88 | 0.00 | 47.45 | 404.55 | 0.12 | 0.057 | 0.0023 | 0.8017 | 0.0339 | 0.0996 | 0.0015 | 500 | 95 | 598 | 19 | 612 | 9 | 97 |
| 19JX01-1.1-35 | 60.38 | 0.80 | 161.69 | 534.33 | 0.30 | 0.059 | 0.0023 | 0.7947 | 0.0291 | 0.0961 | 0.0011 | 569 | 85 | 594 | 16 | 592 | 6 | 99 |
| 19JX01-1.1-38 | 183.30 | 0.00 | 421.55 | 1551.17 | 0.27 | 0.0621 | 0.0022 | 0.8176 | 0.0263 | 0.0947 | 0.0014 | 676 | 76 | 607 | 15 | 583 | 8 | 96 |
| 19JX01-1.1-06 | 30.22 | 2.37 | 322.50 | 208.73 | 1.55 | 0.0642 | 0.0037 | 0.8018 | 0.0397 | 0.0902 | 0.0014 | 750 | 129 | 598 | 22 | 557 | 8 | 94 |
| 19JX01-1.1-21 | 145.73 | 2.38 | 621.43 | 1405.70 | 0.44 | 0.0601 | 0.0022 | 0.7178 | 0.0247 | 0.0848 | 0.001 | 606 | 80 | 549 | 15 | 525 | 6 | 95 |
| 19JX01-1.1-10 | 34.66 | 1.43 | 572.42 | 222.59 | 2.57 | 0.0604 | 0.0035 | 0.706 | 0.0372 | 0.0845 | 0.0013 | 617 | 128 | 542 | 22 | 523 | 7 | 96 |
| 19JX01-1.1-84 | 56.87 | 1.97 | 378.78 | 519.20 | 0.73 | 0.0607 | 0.0025 | 0.6911 | 0.0283 | 0.0822 | 0.001 | 628 | 61 | 533 | 17 | 509 | 6 | 95 |
| 19JX01-1.1-60 | 16.31 | 1.65 | 153.64 | 142.77 | 1.08 | 0.059 | 0.0039 | 0.6657 | 0.0412 | 0.0805 | 0.0014 | 569 | 144 | 518 | 25 | 499 | 8 | 96 |
| 19JX01-1.1-54 | 27.48 | 0.00 | 192.38 | 261.46 | 0.74 | 0.058 | 0.0031 | 0.6404 | 0.0313 | 0.0802 | 0.0012 | 532 | 117 | 503 | 19 | 497 | 7 | 98 |

注：TotalPb：表示放射性成因Pb含量总和

附表2武功山杂岩高滩组含榴云母石英片岩19JX01-1.1碎屑锆石稀土元素分析结果(×10-6)

Appendix Table 2 REE composition of 19JX01-1.1 detrital zircons from the garnet-bearing mica quartz schist of the Gaotan Formation in the Wugongshan Complex

(×10-6)

| 分析点 | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | ∑REE | Eu/Eu\* | Ce/Ce\* | LuN/SmN |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19JX01-1.1-37 | 0.60 | 31.44 | 0.45 | 6.13 | 12.38 | 4.58 | 54.97 | 17.10 | 172.19 | 58.69 | 234.72 | 44.12 | 359.69 | 67.33 | 1064.37 | 0.45 | 14.23 | 32.76 |
| 19JX01-1.1-31 | 0.04 | 4.12 | 0.01 | 0.41 | 0.30 | 0.10 | 5.12 | 2.94 | 40.95 | 17.37 | 92.77 | 22.39 | 230.29 | 51.38 | 468.17 | 0.12 | 49.48 | 1028.16 |
| 19JX01-1.1-19 | 0.07 | 12.63 | 0.11 | 2.60 | 6.50 | 0.37 | 45.71 | 16.41 | 197.38 | 76.01 | 329.87 | 62.82 | 535.69 | 102.50 | 1388.65 | 0.05 | 27.96 | 95.03 |
| 19JX01-1.1-105 | 0.11 | 15.86 | 0.14 | 1.55 | 5.31 | 0.37 | 28.63 | 10.99 | 140.79 | 56.96 | 249.66 | 50.27 | 411.69 | 77.23 | 1049.57 | 0.07 | 26.66 | 87.55 |
| 19JX01-1.1-99 | 0.05 | 9.16 | 0.10 | 2.47 | 4.50 | 1.45 | 28.99 | 9.33 | 111.72 | 44.53 | 202.33 | 42.52 | 389.14 | 86.22 | 932.49 | 0.29 | 23.61 | 115.48 |
| 19JX01-1.1-02 | 0.01 | 50.58 | 0.06 | 1.16 | 2.42 | 0.52 | 12.01 | 4.39 | 55.10 | 22.79 | 107.30 | 26.08 | 271.50 | 60.03 | 613.94 | 0.24 | 242.29 | 149.25 |
| 19JX01-1.1-28 | 0.03 | 64.58 | 0.08 | 1.68 | 3.13 | 1.03 | 16.68 | 5.38 | 67.92 | 26.36 | 128.41 | 29.75 | 293.10 | 64.55 | 702.65 | 0.35 | 223.20 | 124.31 |
| 19JX01-1.1-101 | 0.06 | 22.30 | 0.50 | 6.92 | 8.17 | 1.58 | 33.38 | 9.38 | 92.92 | 31.18 | 132.07 | 25.89 | 223.40 | 46.52 | 634.25 | 0.25 | 13.24 | 34.31 |
| 19JX01-1.1-73 | 0.04 | 26.93 | 0.07 | 1.37 | 1.87 | 0.73 | 7.98 | 2.28 | 24.31 | 8.80 | 42.84 | 9.03 | 86.73 | 19.49 | 232.45 | 0.50 | 99.26 | 62.73 |
| 19JX01-1.1-78 | 0.05 | 9.99 | 0.09 | 1.99 | 4.55 | 1.06 | 28.79 | 8.17 | 80.41 | 24.86 | 91.31 | 14.84 | 116.44 | 22.84 | 405.36 | 0.21 | 30.09 | 30.25 |
| 19JX01-1.1-08 | 0.21 | 37.32 | 0.65 | 9.01 | 11.30 | 1.65 | 41.70 | 12.03 | 129.34 | 43.23 | 183.33 | 35.69 | 309.28 | 60.97 | 875.69 | 0.21 | 15.82 | 32.51 |
| 19JX01-1.1-46 | 0.05 | 18.92 | 0.23 | 4.02 | 6.64 | 1.63 | 36.46 | 12.07 | 131.16 | 48.44 | 206.48 | 40.96 | 376.32 | 75.89 | 959.26 | 0.25 | 23.49 | 68.85 |
| 19JX01-1.1-92 | 0.04 | 12.04 | 0.01 | 0.61 | 1.74 | 0.27 | 7.41 | 3.45 | 36.39 | 13.74 | 67.59 | 15.36 | 137.73 | 30.06 | 326.42 | 0.19 | 142.42 | 104.06 |
| 19JX01-1.1-18 | 0.04 | 2.35 | 0.03 | 0.24 | 0.50 | 0.24 | 3.10 | 1.04 | 16.23 | 7.47 | 40.88 | 10.88 | 121.98 | 33.03 | 238.01 | 0.46 | 17.99 | 396.36 |
| 19JX01-1.1-30 | 0.33 | 72.40 | 1.37 | 12.14 | 10.51 | 2.38 | 39.98 | 13.69 | 159.94 | 60.39 | 277.76 | 56.71 | 514.24 | 105.88 | 1327.71 | 0.31 | 14.98 | 60.69 |
| 19JX01-1.1-88 | 0.37 | 4.56 | 0.12 | 1.72 | 2.42 | 0.11 | 18.98 | 7.75 | 95.30 | 39.12 | 181.88 | 37.94 | 337.39 | 67.13 | 794.80 | 0.04 | 5.25 | 167.15 |
| 19JX01-1.1-72 | 0.03 | 3.54 | 0.02 | 0.16 | 0.39 | 0.05 | 3.24 | 1.30 | 20.67 | 8.64 | 47.67 | 12.96 | 140.78 | 34.04 | 273.49 | 0.10 | 35.65 | 531.20 |
| 19JX01-1.1-42 | 183.84 | 380.51 | 39.16 | 157.12 | 28.16 | 1.26 | 30.78 | 6.94 | 68.40 | 25.47 | 123.12 | 28.79 | 277.23 | 58.42 | 1409.17 | 0.13 | 1.05 | 12.50 |
| 19JX01-1.1-04 | 0.01 | 6.53 | 0.03 | 1.03 | 3.07 | 0.44 | 15.13 | 6.36 | 83.16 | 36.99 | 174.66 | 37.11 | 359.01 | 75.05 | 798.57 | 0.16 | 53.03 | 147.16 |
| 19JX01-1.1-93 | 0.05 | 8.51 | 0.19 | 5.13 | 6.60 | 2.77 | 40.19 | 10.47 | 131.27 | 47.52 | 221.60 | 46.21 | 422.67 | 91.44 | 1034.63 | 0.40 | 12.66 | 83.44 |
| 19JX01-1.1-14 | 0.09 | 10.10 | 0.16 | 1.30 | 3.06 | 0.13 | 16.66 | 6.21 | 80.92 | 31.87 | 146.42 | 29.77 | 277.66 | 54.97 | 659.31 | 0.04 | 15.91 | 108.06 |
| 19JX01-1.1-22 | 0.02 | 17.20 | 0.09 | 1.06 | 2.08 | 0.29 | 9.14 | 3.29 | 38.27 | 14.45 | 67.99 | 14.08 | 130.29 | 26.15 | 324.39 | 0.17 | 56.64 | 75.69 |
| 19JX01-1.1-98 | 0.04 | 4.49 | 0.16 | 2.04 | 4.04 | 0.23 | 19.97 | 7.09 | 76.34 | 27.46 | 116.33 | 22.90 | 205.76 | 41.03 | 527.88 | 0.06 | 8.21 | 61.23 |
| 19JX01-1.1-74 | 0.03 | 12.66 | 0.02 | 0.88 | 1.23 | 0.14 | 13.24 | 4.49 | 62.84 | 24.27 | 120.46 | 26.78 | 246.66 | 51.63 | 565.34 | 0.07 | 127.28 | 253.07 |
| 19JX01-1.1-65 | 425.66 | 1096.01 | 143.49 | 659.80 | 154.45 | 3.74 | 169.26 | 25.51 | 183.10 | 47.70 | 182.06 | 33.95 | 280.16 | 58.82 | 3463.69 | 0.07 | 1.08 | 2.29 |
| 19JX01-1.1-82 | 0.06 | 20.98 | 0.23 | 3.33 | 7.83 | 0.36 | 48.71 | 16.54 | 204.33 | 81.18 | 358.54 | 69.17 | 573.63 | 113.95 | 1498.83 | 0.04 | 25.72 | 87.68 |
| 19JX01-1.1-03 | 0.08 | 15.88 | 0.09 | 1.63 | 2.73 | 0.51 | 13.30 | 4.83 | 66.08 | 28.60 | 148.98 | 35.82 | 360.26 | 79.63 | 758.42 | 0.21 | 39.54 | 175.44 |
| 19JX01-1.1-67 | 0.91 | 35.08 | 1.01 | 6.20 | 3.61 | 1.11 | 10.90 | 2.87 | 33.42 | 14.68 | 79.94 | 19.73 | 217.10 | 54.43 | 480.99 | 0.50 | 7.94 | 90.95 |
| 19JX01-1.1-100 | 0.04 | 9.74 | 0.17 | 2.37 | 4.28 | 0.57 | 22.58 | 7.46 | 87.40 | 31.05 | 146.05 | 31.10 | 263.34 | 56.26 | 662.39 | 0.14 | 16.68 | 79.27 |
| 19JX01-1.1-106 | 0.01 | 10.31 | 0.29 | 3.86 | 9.42 | 1.62 | 63.52 | 19.24 | 229.43 | 85.74 | 369.10 | 71.47 | 602.68 | 120.30 | 1586.99 | 0.15 | 10.81 | 76.90 |
| 19JX01-1.1-13 | 0.06 | 7.39 | 0.04 | 0.52 | 1.21 | 0.02 | 6.76 | 3.32 | 46.12 | 19.17 | 95.08 | 21.52 | 203.54 | 42.23 | 446.97 | 0.01 | 38.47 | 209.53 |
| 19JX01-1.1-49 | 0.12 | 28.91 | 0.19 | 1.34 | 3.40 | 0.40 | 23.07 | 8.70 | 112.40 | 47.35 | 225.40 | 50.10 | 468.75 | 95.96 | 1066.11 | 0.10 | 37.72 | 169.86 |
| 19JX01-1.1-76 | 0.02 | 10.15 | 0.16 | 2.87 | 5.02 | 0.09 | 20.79 | 5.87 | 63.24 | 18.61 | 74.91 | 13.76 | 104.31 | 19.58 | 339.36 | 0.02 | 19.33 | 23.49 |
| 19JX01-1.1-86 | 0.17 | 8.66 | 0.14 | 1.70 | 4.23 | 0.41 | 29.42 | 10.33 | 130.27 | 51.64 | 231.02 | 47.50 | 411.30 | 83.56 | 1010.34 | 0.08 | 12.67 | 118.99 |
| 19JX01-1.1-75 | 0.31 | 25.77 | 0.23 | 3.65 | 7.25 | 1.47 | 34.40 | 10.16 | 107.86 | 37.95 | 179.36 | 43.86 | 434.09 | 91.36 | 977.71 | 0.24 | 22.87 | 75.86 |
| 19JX01-1.1-102 | 0.03 | 21.24 | 0.14 | 2.13 | 5.64 | 0.15 | 28.96 | 9.10 | 99.48 | 36.57 | 155.94 | 29.77 | 257.93 | 53.34 | 700.40 | 0.03 | 45.34 | 56.96 |
| 19JX01-1.1-57 | 1.53 | 12.25 | 0.76 | 3.68 | 3.13 | 0.65 | 12.98 | 3.84 | 45.74 | 17.42 | 85.39 | 17.42 | 178.24 | 38.91 | 421.93 | 0.27 | 2.78 | 74.95 |
| 19JX01-1.1-80 | 0.02 | 9.89 | 0.06 | 0.60 | 2.11 | 0.15 | 11.13 | 4.16 | 54.45 | 22.44 | 102.37 | 21.97 | 204.07 | 40.87 | 474.29 | 0.08 | 42.51 | 116.89 |
| 19JX01-1.1-36 | 0.02 | 2.08 | 0.02 | 0.38 | 0.82 | 0.43 | 13.98 | 7.48 | 129.87 | 62.12 | 342.84 | 82.90 | 825.70 | 178.65 | 1647.29 | 0.20 | 22.55 | 1315.55 |
| 19JX01-1.1-104 | 0.04 | 0.55 | 0.25 | 0.10 | 0.88 | 0.19 | 6.17 | 3.31 | 53.81 | 24.32 | 133.51 | 34.72 | 379.13 | 84.61 | 721.59 | 0.19 | 0.66 | 579.14 |
| 19JX01-1.1-11 | 0.03 | 11.20 | 0.24 | 3.64 | 8.72 | 0.89 | 50.22 | 18.49 | 233.22 | 91.87 | 391.45 | 76.64 | 654.10 | 125.57 | 1666.28 | 0.10 | 13.65 | 86.78 |
| 19JX01-1.1-103 | 0.53 | 38.45 | 0.27 | 4.07 | 6.57 | 0.90 | 28.87 | 9.02 | 102.71 | 36.80 | 154.98 | 31.47 | 263.48 | 51.82 | 729.93 | 0.17 | 24.95 | 47.48 |
| 19JX01-1.1-69 | 25.94 | 89.47 | 10.70 | 56.65 | 17.56 | 0.90 | 25.00 | 6.27 | 62.08 | 21.63 | 92.06 | 19.88 | 166.76 | 32.06 | 626.97 | 0.13 | 1.32 | 11.00 |
| 19JX01-1.1-97 | 0.29 | 20.99 | 0.24 | 1.85 | 1.03 | 0.27 | 3.05 | 0.95 | 11.40 | 4.19 | 21.13 | 4.63 | 45.12 | 10.74 | 125.86 | 0.43 | 18.35 | 62.89 |
| 19JX01-1.1-41 | 0.07 | 74.65 | 0.51 | 8.98 | 13.68 | 0.58 | 77.18 | 27.91 | 321.32 | 115.50 | 480.72 | 91.78 | 754.87 | 135.43 | 2103.17 | 0.04 | 43.64 | 59.63 |
| 19JX01-1.1-56 | 0.31 | 8.26 | 0.14 | 0.86 | 1.01 | 0.42 | 3.48 | 0.70 | 7.52 | 2.23 | 12.94 | 3.19 | 39.33 | 11.03 | 91.42 | 0.61 | 9.76 | 65.69 |
| 19JX01-1.1-96 | 0.03 | 13.83 | 0.01 | 0.11 | 0.49 | 0.15 | 2.65 | 1.52 | 18.69 | 8.81 | 48.75 | 12.57 | 130.92 | 30.08 | 268.60 | 0.33 | 188.04 | 371.28 |
| 19JX01-1.1-40 | 0.77 | 17.56 | 0.54 | 4.88 | 5.69 | 0.35 | 19.04 | 6.50 | 80.03 | 28.68 | 129.38 | 28.38 | 254.89 | 49.25 | 625.93 | 0.09 | 6.42 | 52.13 |
| 19JX01-1.1-29 | 0.34 | 41.53 | 0.26 | 3.17 | 4.85 | 0.48 | 26.35 | 10.53 | 144.77 | 57.91 | 301.71 | 69.96 | 696.56 | 147.62 | 1506.04 | 0.10 | 32.55 | 183.19 |
| 19JX01-1.1-05 | 0.01 | 0.34 | 0.02 | 0.37 | 2.61 | 0.10 | 21.77 | 8.36 | 81.15 | 23.36 | 76.54 | 12.90 | 101.79 | 17.29 | 346.60 | 0.03 | 4.97 | 39.91 |
| 19JX01-1.1-90 | 0.01 | 0.59 | 0.07 | 1.57 | 5.16 | 0.09 | 35.46 | 11.92 | 123.86 | 39.13 | 147.15 | 27.85 | 224.26 | 42.95 | 660.07 | 0.02 | 2.53 | 50.19 |
| 19JX01-1.1-89 | 0.03 | 7.10 | 0.05 | 0.74 | 2.02 | 0.08 | 13.65 | 4.57 | 63.00 | 23.01 | 110.96 | 25.52 | 241.65 | 48.82 | 541.19 | 0.03 | 35.06 | 145.50 |
| 19JX01-1.1-27 | 0.01 | 0.46 | 0.18 | 0.79 | 1.83 | 0.03 | 16.62 | 5.03 | 54.41 | 15.61 | 61.23 | 11.65 | 95.92 | 18.42 | 282.19 | 0.01 | 0.78 | 60.52 |
| 19JX01-1.1-66 | 0.03 | 9.86 | 0.08 | 3.37 | 6.48 | 0.26 | 31.81 | 10.00 | 119.60 | 39.89 | 180.65 | 35.23 | 303.93 | 56.80 | 798.00 | 0.05 | 32.15 | 52.81 |
| 19JX01-1.1-64 | 0.45 | 3.10 | 0.32 | 3.35 | 7.04 | 0.34 | 34.77 | 10.62 | 113.30 | 38.57 | 154.90 | 28.57 | 232.24 | 43.52 | 671.10 | 0.05 | 1.92 | 37.23 |
| 19JX01-1.1-01 | 13.60 | 54.60 | 5.72 | 36.70 | 22.73 | 1.11 | 74.65 | 24.07 | 289.58 | 103.81 | 441.97 | 86.25 | 759.57 | 143.35 | 2057.72 | 0.07 | 1.52 | 37.98 |
| 19JX01-1.1-44 | 0.14 | 9.33 | 0.57 | 7.06 | 13.62 | 0.51 | 62.30 | 18.46 | 202.91 | 72.54 | 308.80 | 61.00 | 516.96 | 102.54 | 1376.75 | 0.04 | 4.62 | 45.34 |
| 19JX01-1.1-91 | 0.01 | 10.93 | 0.07 | 0.28 | 1.44 | 0.32 | 11.44 | 4.11 | 54.15 | 24.09 | 121.53 | 28.62 | 292.25 | 66.69 | 615.95 | 0.17 | 43.07 | 279.73 |
| 19JX01-1.1-51 | 3.43 | 43.00 | 1.42 | 11.64 | 16.38 | 3.09 | 65.28 | 19.30 | 217.26 | 78.57 | 350.02 | 72.70 | 644.09 | 130.88 | 1657.07 | 0.25 | 4.78 | 48.12 |
| 19JX01-1.1-68 | 0.31 | 4.21 | 0.25 | 3.15 | 7.83 | 2.67 | 69.51 | 23.48 | 287.06 | 103.89 | 414.31 | 79.30 | 646.75 | 115.10 | 1757.83 | 0.24 | 3.48 | 88.58 |
| 19JX01-1.1-34 | 0.01 | 3.24 | 0.06 | 1.27 | 3.81 | 0.29 | 20.81 | 5.78 | 56.17 | 16.07 | 56.03 | 10.02 | 80.07 | 14.67 | 268.30 | 0.08 | 14.45 | 23.20 |
| 19JX01-1.1-50 | 0.01 | 0.74 | 0.03 | 0.87 | 2.80 | 0.05 | 19.34 | 9.68 | 123.69 | 43.00 | 176.50 | 35.31 | 271.28 | 52.31 | 735.62 | 0.02 | 6.80 | 112.46 |
| 19JX01-1.1-52 | 0.48 | 7.33 | 0.64 | 3.87 | 3.51 | 0.49 | 16.59 | 4.90 | 56.57 | 20.83 | 89.40 | 18.83 | 161.05 | 31.68 | 416.15 | 0.16 | 2.73 | 54.42 |
| 19JX01-1.1-25 | 0.02 | 5.36 | 0.19 | 2.80 | 6.33 | 0.11 | 28.47 | 10.05 | 115.18 | 41.07 | 172.46 | 34.78 | 298.29 | 58.19 | 773.31 | 0.02 | 8.56 | 55.37 |
| 19JX01-1.1-07 | 0.05 | 2.69 | 0.09 | 0.50 | 2.37 | 0.07 | 10.99 | 4.13 | 55.51 | 18.68 | 84.29 | 17.36 | 154.67 | 30.14 | 381.53 | 0.03 | 7.87 | 76.49 |
| 19JX01-1.1-48 | 0.05 | 6.28 | 0.07 | 1.13 | 5.44 | 0.22 | 30.61 | 9.43 | 108.40 | 32.78 | 130.38 | 25.39 | 216.07 | 42.13 | 608.37 | 0.04 | 20.68 | 46.61 |
| 19JX01-1.1-85 | 0.19 | 1.08 | 0.08 | 0.83 | 3.30 | 0.25 | 27.11 | 10.46 | 109.21 | 32.16 | 122.65 | 20.71 | 166.36 | 31.78 | 526.16 | 0.06 | 2.16 | 58.07 |
| 19JX01-1.1-79 | 0.01 | 1.97 | 0.08 | 0.78 | 4.26 | 0.08 | 31.20 | 12.05 | 142.58 | 49.56 | 209.38 | 39.93 | 339.42 | 64.73 | 896.03 | 0.02 | 7.25 | 91.57 |
| 19JX01-1.1-55 | 0.03 | 11.49 | 0.03 | 0.89 | 2.21 | 0.07 | 15.43 | 5.41 | 73.83 | 26.55 | 120.62 | 25.01 | 213.32 | 42.60 | 537.47 | 0.03 | 90.08 | 116.38 |
| 19JX01-1.1-23 | 0.02 | 5.85 | 0.11 | 1.38 | 3.55 | 0.20 | 15.28 | 4.62 | 46.62 | 15.51 | 60.70 | 11.51 | 103.60 | 20.01 | 288.96 | 0.07 | 15.03 | 34.00 |
| 19JX01-1.1-62 | 0.03 | 9.91 | 0.05 | 0.28 | 1.18 | 0.16 | 6.82 | 2.45 | 34.67 | 16.49 | 88.51 | 23.31 | 262.59 | 68.87 | 515.32 | 0.13 | 52.50 | 350.69 |
| 19JX01-1.1-109 | 0.03 | 3.70 | 0.03 | 0.84 | 2.73 | 0.08 | 20.59 | 7.24 | 86.48 | 34.48 | 145.61 | 29.54 | 254.20 | 51.18 | 636.72 | 0.02 | 28.22 | 113.14 |
| 19JX01-1.1-43 | 0.02 | 6.11 | 0.15 | 1.98 | 4.07 | 0.33 | 23.05 | 8.37 | 101.50 | 39.00 | 179.61 | 35.78 | 318.57 | 63.05 | 781.58 | 0.08 | 12.12 | 93.33 |
| 19JX01-1.1-39 | 0.06 | 5.54 | 0.07 | 1.27 | 2.15 | 0.07 | 10.72 | 4.38 | 54.02 | 19.65 | 85.41 | 17.38 | 152.38 | 31.75 | 384.83 | 0.04 | 19.02 | 88.95 |
| 19JX01-1.1-09 | 0.03 | 0.32 | 0.02 | 0.30 | 1.40 | 0.34 | 17.83 | 8.60 | 107.79 | 37.18 | 159.47 | 32.61 | 296.61 | 59.15 | 721.65 | 0.12 | 3.25 | 253.95 |
| 19JX01-1.1-47 | 0.62 | 18.53 | 0.59 | 6.44 | 10.69 | 0.09 | 54.60 | 18.15 | 219.17 | 79.88 | 344.95 | 66.28 | 547.74 | 101.39 | 1469.11 | 0.01 | 6.87 | 57.15 |
| 19JX01-1.1-53 | 0.03 | 3.98 | 0.11 | 1.66 | 5.17 | 0.07 | 31.18 | 11.60 | 137.12 | 51.38 | 216.91 | 42.18 | 362.62 | 68.75 | 932.74 | 0.01 | 9.91 | 80.16 |
| 19JX01-1.1-24 | 0.01 | 3.04 | 0.21 | 3.12 | 6.51 | 0.14 | 16.99 | 3.72 | 29.62 | 7.80 | 24.45 | 4.42 | 28.12 | 4.89 | 133.02 | 0.04 | 4.46 | 4.52 |
| 19JX01-1.1-58 | 0.02 | 0.44 | 0.03 | 0.28 | 1.12 | 0.05 | 10.64 | 5.08 | 64.51 | 22.17 | 95.44 | 22.06 | 209.02 | 44.61 | 475.47 | 0.03 | 3.60 | 240.57 |
| 19JX01-1.1-20 | 0.03 | 55.07 | 0.07 | 1.93 | 4.54 | 1.95 | 22.41 | 8.40 | 107.06 | 44.21 | 208.39 | 44.51 | 415.85 | 86.56 | 1000.97 | 0.48 | 201.55 | 114.79 |
| 19JX01-1.1-77 | 0.01 | 6.45 | 0.29 | 5.08 | 7.61 | 0.74 | 33.09 | 9.85 | 103.41 | 33.50 | 143.16 | 26.32 | 226.20 | 44.72 | 640.41 | 0.12 | 6.77 | 35.42 |
| 19JX01-1.1-108 | 0.21 | 13.30 | 0.34 | 6.89 | 9.23 | 1.58 | 45.78 | 15.34 | 179.57 | 65.52 | 274.98 | 55.73 | 455.89 | 89.06 | 1213.42 | 0.19 | 9.88 | 58.14 |
| 19JX01-1.1-32 | 0.40 | 7.30 | 0.28 | 1.90 | 1.56 | 0.17 | 9.13 | 4.92 | 77.25 | 35.76 | 201.71 | 52.16 | 550.16 | 111.70 | 1054.39 | 0.11 | 5.14 | 431.60 |
| 19JX01-1.1-59 | 0.02 | 2.69 | 0.09 | 0.93 | 0.89 | 0.05 | 6.92 | 2.76 | 30.06 | 13.49 | 75.13 | 17.21 | 163.85 | 35.54 | 349.63 | 0.05 | 8.78 | 241.88 |
| 19JX01-1.1-35 | 0.04 | 5.38 | 0.04 | 1.44 | 2.97 | 0.57 | 16.09 | 5.23 | 52.16 | 17.18 | 73.21 | 14.13 | 126.87 | 25.52 | 340.82 | 0.20 | 32.63 | 51.74 |
| 19JX01-1.1-38 | 0.20 | 8.00 | 0.16 | 0.88 | 3.60 | 0.27 | 15.99 | 6.81 | 81.85 | 32.84 | 148.34 | 30.26 | 263.65 | 51.18 | 644.03 | 0.09 | 10.26 | 85.66 |
| 19JX01-1.1-06 | 36.20 | 43.95 | 7.10 | 27.20 | 12.04 | 1.89 | 25.82 | 7.06 | 73.53 | 23.46 | 91.64 | 17.26 | 148.78 | 27.91 | 543.83 | 0.32 | 0.63 | 13.96 |
| 19JX01-1.1-21 | 0.02 | 21.86 | 0.03 | 0.91 | 2.27 | 0.10 | 13.49 | 4.64 | 57.10 | 22.73 | 105.09 | 23.15 | 225.82 | 44.05 | 521.25 | 0.04 | 197.44 | 117.06 |
| 19JX01-1.1-10 | 0.16 | 58.96 | 1.53 | 20.33 | 18.98 | 7.61 | 46.12 | 11.24 | 101.18 | 31.88 | 129.25 | 25.62 | 235.41 | 47.72 | 735.96 | 0.75 | 11.50 | 15.15 |
| 19JX01-1.1-84 | 0.03 | 23.73 | 0.07 | 1.18 | 3.00 | 0.30 | 12.23 | 4.17 | 48.50 | 16.84 | 76.83 | 15.83 | 148.91 | 30.69 | 382.32 | 0.13 | 85.82 | 61.54 |
| 19JX01-1.1-60 | 0.14 | 25.08 | 0.10 | 1.39 | 2.85 | 0.31 | 13.93 | 4.71 | 47.52 | 17.49 | 73.48 | 15.63 | 135.74 | 27.10 | 365.46 | 0.12 | 50.13 | 57.33 |
| 19JX01-1.1-54 | 0.02 | 20.48 | 0.06 | 0.73 | 2.09 | 0.33 | 11.71 | 4.67 | 57.83 | 22.62 | 105.84 | 23.18 | 217.65 | 44.19 | 511.41 | 0.16 | 95.96 | 127.43 |

附表3武功山杂岩高滩组含榴云母石英片岩19JX01-3.1碎屑锆石LA-ICP-MS U-Pb测年结果

Appendix Table 3 LA-ICP-MS analyses of 19JX01-3.1 detrital zircons from the garnet-bearing mica quartz schist of the Gaotan Formation in the Wugongshan Complex

| 分析点 | 含量（10-6） | | | | Th/U | 同位素比值 | | | | | | 同位素年龄 (Ma) | | | | | | 谐和度 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PbTotal | PbCommon | 232Th | 238U | 207Pb/206Pb | 1σ | 207Pb/235U | 1σ | 206Pb/238U | 1σ | 207Pb/206Pb | 1σ | 207Pb/235U | 1σ | 206Pb/238U | 1σ |
| 19JX01-3.1-22 | 210.21 | 0.57 | 163.01 | 211.50 | 0.77 | 0.27536 | 0.00815 | 26.13668 | 0.76315 | 0.68269 | 0.0073 | 3337 | 46 | 3352 | 29 | 3355 | 28 | 99 |
| 19JX01-3.1-71 | 246.45 | 0.30 | 24.95 | 334.56 | 0.07 | 0.24858 | 0.00797 | 20.57039 | 0.62922 | 0.58839 | 0.0070 | 3176 | 51 | 3119 | 30 | 2983 | 28 | 94 |
| 19JX01-3.1-16 | 115.72 | 4.05 | 195.64 | 175.87 | 1.11 | 0.17305 | 0.00539 | 11.03994 | 0.35643 | 0.45690 | 0.0056 | 2587 | 52 | 2527 | 30 | 2426 | 25 | 93 |
| 19JX01-3.1-13 | 325.17 | 0.06 | 409.79 | 528.47 | 0.78 | 0.17248 | 0.00630 | 10.72975 | 0.37116 | 0.44554 | 0.0046 | 2583 | 61 | 2500 | 32 | 2375 | 21 | 91 |
| 19JX01-3.1-61 | 297.95 | 0.00 | 161.84 | 519.59 | 0.31 | 0.16100 | 0.00484 | 10.05955 | 0.30630 | 0.44916 | 0.0049 | 2466 | 51 | 2440 | 28 | 2392 | 22 | 97 |
| 19JX01-3.1-66 | 548.42 | 0.99 | 343.93 | 966.48 | 0.36 | 0.16008 | 0.00410 | 10.06607 | 0.25227 | 0.44966 | 0.0040 | 2457 | 43 | 2441 | 23 | 2394 | 18 | 97 |
| 19JX01-3.1-29 | 347.34 | 0.83 | 282.29 | 750.34 | 0.38 | 0.12712 | 0.00324 | 6.79841 | 0.17166 | 0.38407 | 0.0039 | 2058 | 45 | 2086 | 22 | 2095 | 18 | 98 |
| 19JX01-3.1-10 | 138.49 | 0.88 | 82.66 | 294.18 | 0.28 | 0.12527 | 0.00565 | 6.81267 | 0.29343 | 0.38870 | 0.0051 | 2032 | 80 | 2087 | 38 | 2117 | 24 | 96 |
| 19JX01-3.1-07 | 275.23 | 1.76 | 39.06 | 661.93 | 0.06 | 0.12382 | 0.00578 | 6.41968 | 0.28223 | 0.37026 | 0.0047 | 2013 | 82 | 2035 | 39 | 2031 | 22 | 99 |
| 19JX01-3.1-59 | 170.46 | 0.00 | 218.51 | 363.31 | 0.60 | 0.12232 | 0.00356 | 6.11728 | 0.17731 | 0.35909 | 0.0034 | 1991 | 52 | 1993 | 25 | 1978 | 16 | 99 |
| 19JX01-3.1-75 | 75.90 | 2.47 | 153.45 | 161.00 | 0.95 | 0.11900 | 0.00429 | 5.44131 | 0.19699 | 0.32895 | 0.0046 | 1943 | 65 | 1891 | 31 | 1833 | 22 | 94 |
| 19JX01-3.1-30 | 79.40 | 0.00 | 116.55 | 198.39 | 0.59 | 0.11339 | 0.00356 | 4.92469 | 0.14812 | 0.31312 | 0.0035 | 1855 | 56 | 1806 | 25 | 1756 | 17 | 94 |
| 19JX01-3.1-04 | 238.78 | 0.00 | 155.60 | 657.99 | 0.24 | 0.11118 | 0.00418 | 4.98822 | 0.18032 | 0.32019 | 0.0040 | 1820 | 69 | 1817 | 31 | 1791 | 20 | 98 |
| 19JX01-3.1-73 | 69.86 | 0.00 | 103.68 | 178.49 | 0.58 | 0.10939 | 0.00355 | 4.71389 | 0.14555 | 0.30868 | 0.0035 | 1791 | 59 | 1770 | 26 | 1734 | 17 | 97 |
| 19JX01-3.1-34 | 214.87 | 0.61 | 380.43 | 531.90 | 0.72 | 0.10847 | 0.00344 | 4.61911 | 0.14376 | 0.30561 | 0.0035 | 1774 | 57 | 1753 | 26 | 1719 | 18 | 97 |
| 19JX01-3.1-14 | 220.21 | 0.00 | 332.52 | 590.59 | 0.56 | 0.10760 | 0.00375 | 4.47516 | 0.14888 | 0.29781 | 0.0029 | 1759 | 63 | 1726 | 28 | 1680 | 14 | 95 |
| 19JX01-3.1-09 | 127.34 | 1.42 | 255.00 | 331.14 | 0.77 | 0.10632 | 0.00512 | 4.36321 | 0.19824 | 0.29364 | 0.0038 | 1739 | 89 | 1705 | 38 | 1660 | 19 | 95 |
| 19JX01-3.1-84 | 110.66 | 0.00 | 169.20 | 287.82 | 0.59 | 0.10491 | 0.00364 | 4.57443 | 0.14737 | 0.31091 | 0.0035 | 1722 | 64 | 1745 | 27 | 1745 | 17 | 99 |
| 19JX01-3.1-12 | 133.14 | 2.69 | 268.55 | 327.34 | 0.82 | 0.10434 | 0.00433 | 4.45487 | 0.17566 | 0.30598 | 0.0035 | 1703 | 77 | 1723 | 33 | 1721 | 17 | 99 |
| 19JX01-3.1-38 | 99.16 | 0.00 | 166.60 | 258.62 | 0.64 | 0.10299 | 0.00309 | 4.21495 | 0.11903 | 0.29367 | 0.0032 | 1680 | 56 | 1677 | 23 | 1660 | 16 | 99 |
| 19JX01-3.1-50 | 112.05 | 0.01 | 150.35 | 288.74 | 0.52 | 0.10301 | 0.00370 | 4.45192 | 0.14866 | 0.30864 | 0.0036 | 1680 | 66 | 1722 | 28 | 1734 | 18 | 97 |
| 19JX01-3.1-02 | 57.80 | 0.44 | 123.17 | 165.14 | 0.75 | 0.10149 | 0.00380 | 3.85202 | 0.13664 | 0.27207 | 0.0033 | 1652 | 70 | 1604 | 29 | 1551 | 17 | 94 |
| 19JX01-3.1-15 | 217.00 | 0.29 | 349.83 | 591.10 | 0.59 | 0.10096 | 0.00316 | 4.08009 | 0.12201 | 0.29009 | 0.0027 | 1643 | 58 | 1650 | 24 | 1642 | 14 | 100 |
| 19JX01-3.1-52 | 95.91 | 0.00 | 161.16 | 275.24 | 0.59 | 0.10023 | 0.00333 | 3.83207 | 0.11846 | 0.27376 | 0.0031 | 1628 | 62 | 1600 | 25 | 1560 | 16 | 96 |
| 19JX01-3.1-40 | 127.53 | 0.00 | 204.63 | 356.10 | 0.57 | 0.09913 | 0.00293 | 3.86101 | 0.10458 | 0.27859 | 0.0029 | 1609 | 55 | 1606 | 22 | 1584 | 14 | 98 |
| 19JX01-3.1-49 | 103.47 | 1.91 | 110.76 | 295.94 | 0.37 | 0.09817 | 0.00346 | 3.92080 | 0.12775 | 0.28537 | 0.0034 | 1591 | 65 | 1618 | 26 | 1618 | 17 | 98 |
| 19JX01-3.1-06 | 226.82 | 0.17 | 286.00 | 687.40 | 0.42 | 0.09769 | 0.00426 | 3.75446 | 0.15472 | 0.27433 | 0.0033 | 1581 | 81 | 1583 | 33 | 1563 | 16 | 99 |
| 19JX01-3.1-78 | 106.41 | 3.39 | 327.49 | 279.85 | 1.17 | 0.09535 | 0.00357 | 3.56215 | 0.13025 | 0.26935 | 0.0030 | 1544 | 70 | 1541 | 29 | 1538 | 15 | 100 |
| 19JX01-3.1-63 | 235.90 | 0.00 | 17.57 | 897.54 | 0.02 | 0.09282 | 0.00313 | 3.04894 | 0.10448 | 0.23627 | 0.0027 | 1484 | 63 | 1420 | 26 | 1367 | 14 | 91 |
| 19JX01-3.1-55 | 161.55 | 0.78 | 190.32 | 593.16 | 0.32 | 0.08770 | 0.00250 | 2.85160 | 0.08092 | 0.23237 | 0.0025 | 1376 | 56 | 1369 | 21 | 1347 | 13 | 98 |
| 19JX01-3.1-26 | 35.54 | 0.00 | 89.96 | 129.41 | 0.70 | 0.08600 | 0.00372 | 2.48390 | 0.10490 | 0.20919 | 0.0029 | 1339 | 83 | 1267 | 31 | 1225 | 16 | 91 |
| 19JX01-3.1-72 | 70.57 | 3.58 | 89.80 | 273.34 | 0.33 | 0.08547 | 0.00304 | 2.64156 | 0.09080 | 0.22085 | 0.0029 | 1328 | 69 | 1312 | 25 | 1286 | 16 | 97 |
| 19JX01-3.1-60 | 240.27 | 0.33 | 863.49 | 840.05 | 1.03 | 0.08483 | 0.00258 | 2.44368 | 0.07442 | 0.20695 | 0.0020 | 1322 | 59 | 1256 | 22 | 1213 | 11 | 91 |
| 19JX01-3.1-56 | 113.39 | 1.90 | 167.45 | 413.93 | 0.40 | 0.08298 | 0.00251 | 2.62597 | 0.07539 | 0.22707 | 0.0022 | 1278 | 59 | 1308 | 21 | 1319 | 12 | 97 |
| 19JX01-3.1-57 | 126.48 | 0.00 | 367.42 | 398.15 | 0.92 | 0.08091 | 0.00238 | 2.59423 | 0.07457 | 0.23034 | 0.0024 | 1220 | 57 | 1299 | 21 | 1336 | 12 | 91 |
| 19JX01-3.1-85 | 105.83 | 0.00 | 91.00 | 486.41 | 0.19 | 0.08082 | 0.00291 | 2.27571 | 0.08203 | 0.19983 | 0.0026 | 1217 | 70 | 1205 | 25 | 1174 | 14 | 96 |
| 19JX01-3.1-80 | 78.91 | 0.94 | 265.48 | 313.20 | 0.85 | 0.07970 | 0.00294 | 2.06955 | 0.07477 | 0.18677 | 0.0021 | 1191 | 72 | 1139 | 25 | 1104 | 11 | 92 |
| 19JX01-3.1-65 | 87.36 | 3.51 | 270.13 | 364.20 | 0.74 | 0.07967 | 0.00251 | 2.04137 | 0.06390 | 0.18374 | 0.0019 | 1189 | 62 | 1129 | 21 | 1087 | 10 | 91 |
| 19JX01-3.1-03 | 144.17 | 1.60 | 310.41 | 576.95 | 0.54 | 0.07807 | 0.00289 | 2.25722 | 0.07943 | 0.20658 | 0.0024 | 1150 | 74 | 1199 | 25 | 1211 | 13 | 95 |
| 19JX01-3.1-54 | 66.84 | 0.00 | 271.58 | 234.42 | 1.16 | 0.07802 | 0.00269 | 2.19326 | 0.07457 | 0.20118 | 0.0025 | 1147 | 69 | 1179 | 24 | 1182 | 14 | 97 |
| 19JX01-3.1-51 | 209.57 | 0.00 | 551.73 | 772.67 | 0.71 | 0.07707 | 0.00260 | 2.25864 | 0.07118 | 0.20929 | 0.0022 | 1124 | 69 | 1199 | 22 | 1225 | 12 | 92 |
| 19JX01-3.1-17 | 67.25 | 1.49 | 444.63 | 228.58 | 1.95 | 0.07479 | 0.00280 | 1.87427 | 0.06874 | 0.18106 | 0.0024 | 1065 | 75 | 1072 | 24 | 1073 | 13 | 99 |
| 19JX01-3.1-48 | 89.32 | 1.15 | 431.97 | 310.30 | 1.39 | 0.07457 | 0.00255 | 2.00689 | 0.06348 | 0.19231 | 0.0022 | 1057 | 69 | 1118 | 21 | 1134 | 12 | 93 |
| 19JX01-3.1-18 | 243.88 | 0.00 | 32.63 | 1393.01 | 0.02 | 0.07375 | 0.00227 | 1.66468 | 0.04907 | 0.16244 | 0.0016 | 1035 | 62 | 995 | 19 | 970 | 9 | 93 |
| 19JX01-3.1-81 | 460.54 | 3.93 | 1568.84 | 2020.04 | 0.78 | 0.07333 | 0.00211 | 1.82561 | 0.04982 | 0.17836 | 0.0016 | 1033 | 57 | 1055 | 18 | 1058 | 9 | 98 |
| 19JX01-3.1-69 | 306.00 | 0.00 | 1404.50 | 1428.24 | 0.98 | 0.07366 | 0.00229 | 1.64384 | 0.05064 | 0.15874 | 0.0020 | 1031 | 63 | 987 | 19 | 950 | 11 | 91 |
| 19JX01-3.1-05 | 82.42 | 1.60 | 146.41 | 444.57 | 0.33 | 0.07287 | 0.00321 | 1.62829 | 0.06703 | 0.16014 | 0.0019 | 1010 | 90 | 981 | 26 | 958 | 11 | 95 |
| 19JX01-3.1-86 | 90.55 | 1.24 | 359.73 | 432.01 | 0.83 | 0.07020 | 0.00246 | 1.62464 | 0.05521 | 0.16525 | 0.0020 | 1000 | 72 | 980 | 21 | 986 | 11 | 99 |
| 19JX01-3.1-47 | 110.02 | 0.35 | 268.87 | 492.08 | 0.55 | 0.07133 | 0.00216 | 1.80688 | 0.05099 | 0.18061 | 0.0018 | 969 | 61 | 1048 | 18 | 1070 | 10 | 97 |
| 19JX01-3.1-53 | 72.22 | 2.49 | 295.74 | 296.64 | 1.00 | 0.06770 | 0.00256 | 1.69735 | 0.05907 | 0.18013 | 0.0020 | 861 | 106 | 1008 | 22 | 1068 | 11 | 94 |
| 19JX01-3.1-45 | 338.28 | 0.91 | 703.82 | 1638.86 | 0.43 | 0.07056 | 0.00191 | 1.70567 | 0.04169 | 0.17210 | 0.0016 | 946 | 55 | 1011 | 16 | 1024 | 9 | 98 |
| 19JX01-3.1-01 | 266.18 | 4.51 | 287.43 | 1463.69 | 0.20 | 0.07226 | 0.00222 | 1.66164 | 0.04826 | 0.16412 | 0.0015 | 994 | 63 | 994 | 18 | 980 | 9 | 98 |
| 19JX01-3.1-37 | 88.16 | 0.00 | 71.33 | 488.59 | 0.15 | 0.06973 | 0.00229 | 1.56674 | 0.05017 | 0.16095 | 0.0018 | 920 | 68 | 957 | 20 | 962 | 10 | 99 |
| 19JX01-3.1-33 | 63.67 | 2.06 | 116.20 | 337.11 | 0.34 | 0.07200 | 0.00290 | 1.57928 | 0.06224 | 0.15820 | 0.0019 | 987 | 82 | 962 | 25 | 947 | 11 | 98 |
| 19JX01-3.1-28 | 107.47 | 0.00 | 302.90 | 550.08 | 0.55 | 0.07205 | 0.00221 | 1.57529 | 0.04629 | 0.15744 | 0.0015 | 987 | 63 | 961 | 18 | 943 | 8 | 98 |
| 19JX01-3.1-32 | 226.59 | 1.30 | 54.39 | 1317.17 | 0.04 | 0.07078 | 0.00211 | 1.54892 | 0.04357 | 0.15748 | 0.0017 | 951 | 55 | 950 | 17 | 943 | 9 | 99 |
| 19JX01-3.1-43 | 193.04 | 0.64 | 144.31 | 1098.95 | 0.13 | 0.06922 | 0.00230 | 1.51671 | 0.04450 | 0.15616 | 0.0017 | 906 | 69 | 937 | 18 | 935 | 10 | 99 |
| 19JX01-3.1-67 | 19.72 | 0.00 | 42.08 | 106.52 | 0.40 | 0.06380 | 0.00321 | 1.36875 | 0.06319 | 0.15433 | 0.0025 | 744 | 103 | 876 | 27 | 925 | 14 | 94 |
| 19JX01-3.1-64 | 41.89 | 0.65 | 46.74 | 238.80 | 0.20 | 0.06825 | 0.00269 | 1.45912 | 0.05700 | 0.15391 | 0.0018 | 876 | 87 | 914 | 24 | 923 | 10 | 98 |
| 19JX01-3.1-83 | 84.93 | 1.46 | 398.77 | 422.69 | 0.94 | 0.07139 | 0.00267 | 1.52772 | 0.05462 | 0.15307 | 0.0018 | 969 | 71 | 942 | 22 | 918 | 10 | 97 |
| 19JX01-3.1-70 | 30.20 | 0.00 | 70.08 | 171.36 | 0.41 | 0.07089 | 0.00362 | 1.46246 | 0.07122 | 0.14745 | 0.0020 | 954 | 100 | 915 | 29 | 887 | 11 | 96 |
| 19JX01-3.1-42 | 355.08 | 0.00 | 1152.10 | 1871.61 | 0.62 | 0.06807 | 0.00229 | 1.39387 | 0.04207 | 0.14607 | 0.0018 | 872 | 70 | 886 | 18 | 879 | 10 | 99 |
| 19JX01-3.1-44 | 63.11 | 3.79 | 372.23 | 340.24 | 1.09 | 0.06357 | 0.00227 | 1.19764 | 0.03898 | 0.13462 | 0.0015 | 728 | 275 | 799 | 18 | 814 | 9 | 98 |
| 19JX01-3.1-21 | 36.21 | 0.00 | 183.90 | 207.52 | 0.89 | 0.07214 | 0.00349 | 1.33999 | 0.06383 | 0.13402 | 0.0019 | 991 | 100 | 863 | 28 | 811 | 11 | 93 |
| 19JX01-3.1-41 | 45.87 | 0.95 | 282.16 | 270.60 | 1.04 | 0.06427 | 0.00279 | 1.08974 | 0.04333 | 0.12198 | 0.0015 | 750 | 91 | 748 | 21 | 742 | 8 | 99 |
| 19JX01-3.1-62 | 82.04 | 0.07 | 127.45 | 619.05 | 0.21 | 0.06307 | 0.00229 | 1.03897 | 0.03888 | 0.11875 | 0.0017 | 709 | 78 | 723 | 19 | 723 | 10 | 99 |
| 19JX01-3.1-79 | 24.75 | 0.00 | 198.07 | 208.08 | 0.95 | 0.05508 | 0.00332 | 0.66337 | 0.03725 | 0.08763 | 0.0012 | 417 | 135 | 517 | 23 | 542 | 7 | 95 |
| 19JX01-3.1-82 | 71.26 | 1.81 | 374.57 | 667.16 | 0.56 | 0.06204 | 0.00245 | 0.76010 | 0.02873 | 0.08748 | 0.0009 | 676 | 90 | 574 | 17 | 541 | 5 | 93 |
| 19JX01-3.1-46 | 19.86 | 3.75 | 157.88 | 170.80 | 0.92 | 0.05468 | 0.00299 | 0.65255 | 0.03307 | 0.08654 | 0.0013 | 398 | 122 | 510 | 20 | 535 | 8 | 95 |
| 19JX01-3.1-39 | 151.64 | 6.01 | 279.31 | 1599.81 | 0.17 | 0.05845 | 0.00170 | 0.69551 | 0.01955 | 0.08505 | 0.0009 | 546 | 63 | 536 | 12 | 526 | 5 | 98 |
| 19JX01-3.1-68 | 23.87 | 0.33 | 430.26 | 168.60 | 2.55 | 0.06118 | 0.00426 | 0.67920 | 0.04467 | 0.08027 | 0.0013 | 656 | 151 | 526 | 27 | 498 | 8 | 94 |

附表4武功山杂岩高滩组含榴云母石英片岩19JX01-3.1碎屑锆石稀土元素分析结果(×10-6)

Appendix Table 4. REE composition of 19JX01-3.1 detrital zircons from the garnet-bearing mica quartz schist of the Gaotan Formation in the Wugongshan Complex

(×10-6)

| 分析点 | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | ∑REE | Eu/Eu\* | Ce/Ce\* | LuN/SmN |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19JX01-3.1-22 | 0.04 | 4.72 | 0.13 | 3.75 | 6.81 | 1.04 | 42.35 | 13.06 | 152.10 | 57.22 | 247.75 | 47.98 | 413.53 | 79.18 | 1069.66 | 0.14 | 9.83 | 70.01 |
| 19JX01-3.1-71 | 0.05 | 2.01 | 0.02 | 0.38 | 0.57 | 0.26 | 6.18 | 2.48 | 30.93 | 12.34 | 62.74 | 15.19 | 165.33 | 38.68 | 337.14 | 0.26 | 17.28 | 406.66 |
| 19JX01-3.1-16 | 36.84 | 116.03 | 8.70 | 37.85 | 10.98 | 2.87 | 23.08 | 5.66 | 55.63 | 18.64 | 83.13 | 17.52 | 173.78 | 38.36 | 629.06 | 0.54 | 1.54 | 21.04 |
| 19JX01-3.1-13 | 0.02 | 35.64 | 0.18 | 2.71 | 5.68 | 1.26 | 24.38 | 6.33 | 65.53 | 23.15 | 105.70 | 21.22 | 209.63 | 42.68 | 544.08 | 0.28 | 60.45 | 45.29 |
| 19JX01-3.1-61 | 0.02 | 14.22 | 0.03 | 0.87 | 2.56 | 0.55 | 19.48 | 7.98 | 104.30 | 40.34 | 187.43 | 39.47 | 360.25 | 73.32 | 850.81 | 0.17 | 133.71 | 172.65 |
| 19JX01-3.1-66 | 0.03 | 15.84 | 0.08 | 1.87 | 1.59 | 0.25 | 8.61 | 2.55 | 25.84 | 8.78 | 40.62 | 7.55 | 69.74 | 15.21 | 198.55 | 0.16 | 51.75 | 57.49 |
| 19JX01-3.1-29 | 0.06 | 12.85 | 0.21 | 1.89 | 3.17 | 0.28 | 21.18 | 8.25 | 105.87 | 41.91 | 197.01 | 41.01 | 383.88 | 78.22 | 895.77 | 0.08 | 17.36 | 148.82 |
| 19JX01-3.1-10 | 0.05 | 6.81 | 0.15 | 3.04 | 4.53 | 0.92 | 22.88 | 7.07 | 76.64 | 28.83 | 123.14 | 25.72 | 238.75 | 46.31 | 584.84 | 0.22 | 12.18 | 61.61 |
| 19JX01-3.1-07 | 0.03 | 1.92 | 0.03 | 0.25 | 2.01 | 0.11 | 15.58 | 7.22 | 97.39 | 39.35 | 190.33 | 41.30 | 394.24 | 78.73 | 868.47 | 0.04 | 16.32 | 235.57 |
| 19JX01-3.1-59 | 0.32 | 47.59 | 0.31 | 3.89 | 5.48 | 1.43 | 19.31 | 6.01 | 64.41 | 25.01 | 117.30 | 27.85 | 280.32 | 61.90 | 661.13 | 0.38 | 33.39 | 68.09 |
| 19JX01-3.1-75 | 0.50 | 31.93 | 1.17 | 13.35 | 13.90 | 2.84 | 30.97 | 6.91 | 60.30 | 19.44 | 74.58 | 14.50 | 132.02 | 26.15 | 428.56 | 0.40 | 7.23 | 11.34 |
| 19JX01-3.1-30 | 0.01 | 5.96 | 0.11 | 1.36 | 3.42 | 0.39 | 24.78 | 9.04 | 103.46 | 40.73 | 180.99 | 37.39 | 344.15 | 70.34 | 822.11 | 0.09 | 16.66 | 123.99 |
| 19JX01-3.1-04 | 0.06 | 4.47 | 0.21 | 2.84 | 6.31 | 0.79 | 43.75 | 19.28 | 281.26 | 114.68 | 563.01 | 122.52 | 1175.67 | 231.67 | 2566.51 | 0.11 | 5.89 | 221.12 |
| 19JX01-3.1-73 | 59.93 | 139.61 | 18.06 | 91.44 | 22.44 | 0.66 | 43.89 | 11.22 | 107.85 | 39.12 | 168.36 | 33.15 | 296.91 | 58.98 | 1091.60 | 0.06 | 1.03 | 15.83 |
| 19JX01-3.1-34 | 0.17 | 19.80 | 0.28 | 4.20 | 7.09 | 1.33 | 43.41 | 14.03 | 172.23 | 65.40 | 292.96 | 60.13 | 525.80 | 104.55 | 1311.37 | 0.18 | 17.62 | 88.82 |
| 19JX01-3.1-14 | 0.03 | 10.81 | 0.10 | 1.76 | 4.33 | 0.30 | 32.19 | 11.00 | 131.32 | 52.28 | 238.01 | 48.57 | 438.54 | 87.27 | 1056.50 | 0.06 | 31.23 | 121.55 |
| 19JX01-3.1-09 | 0.03 | 7.83 | 0.06 | 1.88 | 3.20 | 0.80 | 18.79 | 7.12 | 90.91 | 34.83 | 163.21 | 32.60 | 309.95 | 63.71 | 734.91 | 0.24 | 35.75 | 120.11 |
| 19JX01-3.1-84 | 0.01 | 10.82 | 0.10 | 2.52 | 6.07 | 0.52 | 27.61 | 9.10 | 109.00 | 40.76 | 173.19 | 35.38 | 303.94 | 61.27 | 780.28 | 0.10 | 33.19 | 60.85 |
| 19JX01-3.1-12 | 0.01 | 41.51 | 0.09 | 1.49 | 4.18 | 1.17 | 29.24 | 9.78 | 121.42 | 49.21 | 225.76 | 48.01 | 445.57 | 90.53 | 1067.97 | 0.24 | 138.25 | 130.59 |
| 19JX01-3.1-38 | 0.04 | 13.39 | 0.10 | 2.01 | 5.14 | 0.68 | 30.24 | 9.57 | 113.56 | 43.75 | 202.25 | 42.52 | 393.32 | 80.96 | 937.53 | 0.13 | 35.39 | 94.93 |
| 19JX01-3.1-50 | 0.02 | 8.74 | 0.01 | 0.49 | 2.09 | 0.35 | 9.90 | 3.55 | 43.26 | 16.54 | 78.00 | 16.14 | 149.84 | 31.56 | 360.48 | 0.20 | 159.38 | 90.87 |
| 19JX01-3.1-02 | 0.01 | 36.13 | 0.12 | 1.21 | 2.43 | 0.48 | 15.34 | 5.94 | 72.28 | 27.92 | 126.62 | 26.46 | 245.16 | 47.85 | 607.95 | 0.18 | 93.62 | 118.57 |
| 19JX01-3.1-15 | 0.01 | 16.50 | 0.15 | 1.72 | 3.15 | 1.09 | 15.21 | 5.13 | 57.22 | 23.64 | 120.25 | 27.27 | 292.48 | 68.39 | 632.23 | 0.40 | 32.80 | 130.61 |
| 19JX01-3.1-52 | 0.03 | 23.38 | 0.09 | 0.80 | 1.67 | 0.29 | 14.99 | 5.36 | 80.30 | 33.08 | 161.23 | 35.82 | 347.34 | 73.30 | 777.67 | 0.12 | 71.84 | 265.18 |
| 19JX01-3.1-40 | 0.04 | 11.30 | 0.10 | 1.34 | 3.20 | 0.36 | 15.64 | 5.48 | 63.16 | 24.49 | 115.27 | 24.47 | 228.72 | 48.96 | 542.54 | 0.13 | 29.04 | 92.05 |
| 19JX01-3.1-49 | 0.03 | 9.14 | 0.03 | 0.12 | 0.85 | 0.07 | 6.94 | 2.78 | 37.77 | 15.79 | 84.85 | 19.74 | 199.15 | 42.98 | 420.23 | 0.06 | 74.98 | 303.18 |
| 19JX01-3.1-06 | 1.04 | 8.57 | 0.45 | 3.83 | 4.11 | 0.14 | 24.63 | 9.05 | 107.63 | 38.93 | 178.62 | 38.00 | 338.31 | 68.59 | 821.88 | 0.03 | 3.06 | 100.63 |
| 19JX01-3.1-78 | 0.02 | 65.85 | 0.14 | 1.83 | 2.13 | 0.48 | 9.19 | 3.39 | 49.39 | 21.51 | 133.61 | 36.04 | 415.33 | 107.34 | 846.23 | 0.28 | 141.36 | 303.55 |
| 19JX01-3.1-63 | 0.06 | 0.28 | 0.02 | 0.15 | 0.22 | 0.18 | 2.81 | 1.93 | 36.63 | 19.64 | 131.71 | 40.20 | 508.37 | 124.23 | 866.45 | 0.42 | 1.83 | 3355.70 |
| 19JX01-3.1-55 | 0.25 | 6.72 | 0.09 | 1.65 | 3.64 | 0.30 | 27.15 | 9.03 | 106.11 | 40.65 | 187.42 | 39.66 | 370.57 | 73.86 | 867.11 | 0.07 | 11.05 | 122.19 |
| 19JX01-3.1-26 | 0.19 | 5.91 | 0.24 | 3.36 | 5.25 | 0.58 | 31.95 | 11.20 | 130.60 | 47.34 | 198.70 | 39.58 | 336.33 | 64.52 | 875.75 | 0.11 | 5.84 | 74.03 |
| 19JX01-3.1-72 | 0.01 | 7.63 | 0.01 | 0.57 | 0.48 | 0.05 | 4.39 | 1.97 | 27.08 | 10.74 | 54.66 | 12.43 | 124.44 | 27.74 | 272.21 | 0.07 | 166.75 | 351.77 |
| 19JX01-3.1-60 | 0.07 | 84.78 | 0.15 | 2.15 | 6.36 | 1.49 | 34.62 | 11.05 | 123.42 | 48.53 | 216.58 | 47.37 | 425.36 | 87.85 | 1089.78 | 0.24 | 146.67 | 83.22 |
| 19JX01-3.1-56 | 0.01 | 6.10 | 0.04 | 0.95 | 1.64 | 0.50 | 16.30 | 6.09 | 83.91 | 37.96 | 188.35 | 42.52 | 411.50 | 91.56 | 887.41 | 0.19 | 38.49 | 335.69 |
| 19JX01-3.1-57 | 0.08 | 19.87 | 0.15 | 2.13 | 5.73 | 1.48 | 27.86 | 10.02 | 123.36 | 50.83 | 252.57 | 60.52 | 587.80 | 136.11 | 1278.50 | 0.29 | 34.44 | 143.01 |
| 19JX01-3.1-85 | 0.04 | 1.12 | 0.08 | 1.41 | 4.35 | 0.14 | 45.81 | 20.83 | 298.23 | 124.64 | 577.93 | 119.48 | 1024.44 | 198.11 | 2416.60 | 0.02 | 3.81 | 274.46 |
| 19JX01-3.1-80 | 0.05 | 8.50 | 0.52 | 6.37 | 11.69 | 2.09 | 68.53 | 22.17 | 262.81 | 93.32 | 401.05 | 77.31 | 692.94 | 138.44 | 1785.78 | 0.18 | 4.91 | 71.37 |
| 19JX01-3.1-65 | 0.03 | 9.41 | 0.13 | 2.39 | 4.23 | 0.46 | 23.00 | 8.72 | 99.24 | 37.49 | 170.23 | 33.58 | 298.73 | 60.34 | 747.97 | 0.11 | 21.01 | 85.94 |
| 19JX01-3.1-03 | 0.02 | 12.93 | 0.11 | 2.05 | 4.17 | 0.11 | 25.96 | 8.46 | 103.45 | 41.02 | 181.76 | 37.43 | 338.33 | 67.00 | 822.81 | 0.03 | 33.96 | 96.69 |
| 19JX01-3.1-54 | 1.53 | 24.48 | 0.78 | 5.84 | 4.87 | 0.27 | 20.22 | 6.44 | 77.01 | 26.93 | 118.09 | 23.55 | 206.97 | 40.19 | 557.16 | 0.07 | 5.47 | 49.71 |
| 19JX01-3.1-51 | 0.01 | 36.90 | 0.09 | 1.34 | 2.88 | 0.60 | 23.19 | 8.77 | 103.93 | 42.47 | 207.85 | 43.79 | 425.04 | 85.41 | 982.26 | 0.16 | 120.33 | 178.83 |
| 19JX01-3.1-17 | 0.19 | 81.09 | 1.21 | 17.48 | 21.27 | 7.67 | 66.03 | 15.96 | 141.29 | 40.69 | 148.09 | 25.83 | 218.61 | 37.59 | 822.98 | 0.57 | 19.66 | 10.65 |
| 19JX01-3.1-48 | 0.01 | 21.25 | 0.17 | 4.37 | 9.92 | 0.27 | 41.82 | 12.76 | 135.69 | 48.42 | 202.26 | 37.90 | 320.66 | 59.61 | 895.12 | 0.03 | 37.02 | 36.19 |
| 19JX01-3.1-18 | 2.59 | 9.19 | 2.05 | 9.02 | 6.39 | 1.88 | 15.39 | 7.00 | 94.68 | 38.45 | 173.08 | 34.28 | 288.94 | 52.15 | 735.10 | 0.56 | 0.92 | 49.14 |
| 19JX01-3.1-81 | 0.17 | 72.17 | 0.60 | 11.02 | 20.25 | 0.57 | 138.15 | 53.45 | 697.63 | 273.57 | 1302.20 | 264.76 | 2347.62 | 459.44 | 5641.60 | 0.02 | 33.74 | 136.69 |
| 19JX01-3.1-69 | 8.22 | 45.39 | 3.27 | 22.06 | 15.84 | 2.13 | 64.36 | 20.15 | 210.88 | 74.65 | 320.59 | 61.50 | 538.75 | 104.64 | 1492.42 | 0.18 | 2.15 | 39.80 |
| 19JX01-3.1-05 | 0.08 | 5.20 | 0.01 | 0.33 | 1.31 | 0.03 | 13.03 | 5.38 | 70.60 | 27.58 | 133.63 | 28.36 | 262.34 | 52.36 | 600.26 | 0.01 | 40.31 | 240.22 |
| 19JX01-3.1-86 | 0.29 | 8.35 | 0.43 | 7.71 | 11.93 | 0.64 | 63.61 | 19.82 | 212.47 | 74.42 | 316.61 | 60.36 | 506.26 | 99.42 | 1382.31 | 0.06 | 4.77 | 50.22 |
| 19JX01-3.1-47 | 0.06 | 15.14 | 0.03 | 1.17 | 3.19 | 0.25 | 17.66 | 6.94 | 86.00 | 34.48 | 156.31 | 33.60 | 291.70 | 59.44 | 705.94 | 0.08 | 93.90 | 112.23 |
| 19JX01-3.1-53 | 0.04 | 15.06 | 0.70 | 8.28 | 12.48 | 1.23 | 55.57 | 16.92 | 183.00 | 62.96 | 265.19 | 51.16 | 438.79 | 88.75 | 1200.11 | 0.12 | 6.58 | 42.85 |
| 19JX01-3.1-45 | 0.04 | 18.07 | 0.08 | 1.25 | 4.01 | 0.23 | 23.40 | 9.05 | 116.25 | 46.59 | 226.31 | 49.42 | 461.76 | 93.72 | 1050.16 | 0.06 | 61.77 | 140.79 |
| 19JX01-3.1-01 | 0.01 | 2.32 | 0.09 | 1.77 | 6.25 | 0.05 | 61.88 | 30.02 | 451.20 | 191.54 | 933.74 | 205.25 | 1844.39 | 352.11 | 4080.61 | 0.01 | 7.65 | 339.47 |
| 19JX01-3.1-37 | 0.05 | 0.64 | 0.03 | 0.68 | 3.21 | 0.10 | 25.82 | 9.10 | 78.43 | 19.93 | 55.04 | 8.25 | 58.13 | 10.00 | 269.40 | 0.02 | 4.24 | 18.78 |
| 19JX01-3.1-33 | 0.03 | 2.09 | 0.05 | 1.97 | 5.19 | 0.12 | 26.34 | 8.80 | 95.70 | 30.89 | 123.83 | 23.19 | 190.51 | 35.12 | 543.83 | 0.03 | 10.32 | 40.78 |
| 19JX01-3.1-28 | 0.04 | 13.55 | 0.09 | 1.72 | 4.22 | 0.15 | 28.68 | 10.66 | 137.18 | 53.00 | 226.10 | 44.91 | 391.35 | 70.58 | 982.23 | 0.03 | 41.65 | 100.80 |
| 19JX01-3.1-32 | 0.02 | 3.17 | 0.04 | 2.15 | 0.65 | 0.02 | 2.90 | 2.09 | 41.78 | 19.00 | 120.87 | 33.58 | 392.11 | 90.26 | 708.64 | 0.03 | 20.52 | 831.31 |
| 19JX01-3.1-43 | 0.06 | 4.35 | 0.24 | 2.37 | 3.58 | 1.15 | 16.31 | 6.31 | 66.48 | 24.47 | 121.77 | 28.81 | 310.11 | 72.90 | 658.90 | 0.39 | 5.19 | 122.52 |
| 19JX01-3.1-67 | 0.02 | 11.37 | 0.08 | 1.58 | 6.07 | 0.17 | 28.77 | 10.35 | 135.69 | 52.27 | 229.84 | 47.14 | 421.35 | 82.12 | 1026.82 | 0.03 | 42.53 | 81.51 |
| 19JX01-3.1-64 | 0.05 | 7.07 | 0.04 | 0.16 | 1.29 | 0.59 | 4.25 | 1.57 | 12.43 | 3.99 | 12.76 | 2.21 | 18.51 | 2.89 | 67.77 | 0.70 | 39.87 | 13.52 |
| 19JX01-3.1-83 | 0.08 | 11.88 | 0.08 | 0.21 | 0.46 | 0.14 | 7.96 | 3.73 | 53.17 | 24.90 | 135.77 | 33.64 | 342.34 | 81.29 | 695.65 | 0.12 | 32.90 | 1073.82 |
| 19JX01-3.1-70 | 1.26 | 6.50 | 0.60 | 6.51 | 7.89 | 0.95 | 49.66 | 15.36 | 178.94 | 64.06 | 265.55 | 49.17 | 411.11 | 80.76 | 1138.31 | 0.11 | 1.82 | 61.63 |
| 19JX01-3.1-42 | 0.34 | 43.42 | 0.64 | 9.45 | 18.16 | 1.65 | 104.81 | 33.66 | 399.43 | 147.45 | 640.97 | 131.70 | 1162.80 | 228.54 | 2923.02 | 0.09 | 17.33 | 75.81 |
| 19JX01-3.1-44 | 1.21 | 20.35 | 0.49 | 7.31 | 10.30 | 0.63 | 44.92 | 13.23 | 142.81 | 47.86 | 195.11 | 35.89 | 305.31 | 58.67 | 884.07 | 0.08 | 6.52 | 34.32 |
| 19JX01-3.1-21 | 0.05 | 14.96 | 0.36 | 6.43 | 7.64 | 0.25 | 50.73 | 17.73 | 199.13 | 74.40 | 308.59 | 60.59 | 513.85 | 95.37 | 1350.08 | 0.03 | 12.36 | 75.17 |
| 19JX01-3.1-41 | 0.05 | 47.46 | 0.06 | 1.09 | 3.81 | 1.52 | 21.36 | 8.59 | 98.83 | 39.74 | 191.17 | 42.67 | 425.27 | 92.32 | 973.94 | 0.41 | 188.78 | 145.84 |
| 19JX01-3.1-62 | 0.35 | 8.26 | 0.45 | 2.43 | 3.15 | 0.69 | 11.02 | 2.34 | 21.36 | 6.86 | 31.86 | 7.08 | 71.51 | 15.88 | 183.23 | 0.32 | 4.33 | 30.40 |
| 19JX01-3.1-79 | 0.04 | 12.51 | 0.32 | 3.83 | 4.83 | 0.46 | 19.22 | 6.16 | 68.87 | 24.49 | 107.50 | 21.12 | 189.75 | 40.26 | 499.34 | 0.13 | 11.46 | 50.27 |
| 19JX01-3.1-82 | 0.09 | 17.44 | 0.09 | 1.17 | 4.19 | 0.19 | 24.46 | 8.68 | 106.28 | 41.51 | 185.07 | 37.17 | 332.03 | 64.74 | 823.10 | 0.04 | 41.42 | 93.07 |
| 19JX01-3.1-46 | 0.03 | 25.99 | 0.12 | 1.97 | 3.89 | 1.02 | 17.24 | 5.80 | 75.61 | 29.37 | 145.16 | 31.55 | 314.85 | 68.20 | 720.80 | 0.32 | 60.93 | 105.58 |
| 19JX01-3.1-39 | 0.03 | 9.39 | 0.07 | 0.72 | 1.80 | 0.17 | 9.09 | 3.50 | 46.62 | 19.36 | 104.56 | 27.12 | 297.29 | 69.16 | 588.86 | 0.10 | 38.44 | 231.83 |
| 19JX01-3.1-68 | 0.01 | 15.43 | 0.57 | 8.24 | 11.43 | 0.62 | 47.70 | 14.72 | 151.14 | 49.65 | 197.32 | 35.55 | 294.78 | 55.49 | 882.66 | 0.07 | 8.32 | 29.24 |