Table 2 U-Th-Pb composition of zircons from Liemai granite measured by LA-ICP-MS

| sample | U | Th | Pb | Th/U | isotope ratio | note | 207Pb/206pbpb | 1σ | 207Pb/235U | 1σNo. | 206 Pb/238U | 1σ |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | /10-6 | 207 Pb/206Pb | σ/% | 207 Pb/235U | σ/% | 206Pb/238U | σ/% | age/Ma | age/Ma | /10-6 |
| LM2-1 | 291 | 343 | 103 | 1.18 | 0.0588 | 0.004 | 0.68686 | 0.044 | 0.08469 | 0.002 | core | 560.9 | 76.5 | 530.9 | 26.3 | **524** | **12** |
| LM2-2 | 11466 | 485 | 313.8 | 0.04 | 0.0469 | 0.003 | 0.0467 | 0.002 | 0.00723 | 0.0002 | rim | 42.8 | 79.2 | 46.3 | 2.3 | **46.5** | **1.3** |
| LM2-3 | 202 | 51 | 17.8 | 0.25 | 0.0547 | 0.005 | 0.16593 | 0.015 | 0.022 | 0.0005 | core | 399.4 | 112.8 | 155.9 | 12.7 | **140.3** | **3.2** |
| LM2-4 | 2673 | 26 | 7.6 | 0.01 | 0.0588 | 0.008 | 0.05802 | 0.007 | 0.00716 | 0.0002 | rim | 559.4 | 156.7 | 57.3 | 6.6 | **46** | **1.2** |
| LM2-5 | 106 | 73 | 29.8 | 0.69 | 0.0777 | 0.006 | 0.73009 | 0.058 | 0.0681 | 0.0018 | core | 1140 | 85.6 | 556.6 | 34 | **424.7** | **11.1** |
| LM2-6 | 2389 | 195 | 69.3 | 0.08 | 0.051 | 0.003 | 0.0509 | 0.003 | 0.00723 | 0.0001 | rim | 241.8 | 74.1 | 50.4 | 2.7 | **46.5** | **0.8** |
| LM2-7 | 143 | 72 | 19 | 0.5 | 0.0554 | 0.004 | 0.25264 | 0.017 | 0.03306 | 0.0007 | core | 428.8 | 89.2 | 228.7 | 14 | **209.7** | **4.2** |
| LM2-8 | 166 | 100 | 373.8 | 0.6 | 0.276 | 0.013 | 20.312 | 1.065 | 0.534 | 0.012 | core | **3339.2** | **40.2** | 3106.3 | 50.8 | 2758.3 | 49.5 |
| LM2-9 | 422 | 101 | 151.8 | 0.24 | 0.0624 | 0.004 | 0.77229 | 0.051 | 0.08972 | 0.0018 | core | 1035.6 | 59.9 | 665.7 | 24.9 | **553.9** | **10.5** |
| LM2-10 | 296 | 213 | 190.2 | 0.72 | 0.0739 | 0.003 | 1.5771 | 0.078 | 0.15475 | 0.0032 | core | 1038.4 | 50.8 | 961.2 | 30.6 | **927.5** | **17.7** |
| LM2-11 | 314 | 100 | 651.9 | 0.32 | 0.0697 | 0.003 | 1.15884 | 0.058 | 0.12062 | 0.0022 | core | 917.9 | 52.2 | 781.4 | 27.2 | **734.1** | **12.7** |
| LM2-12 | 429 | 366 | 325.8 | 0.85 | 0.0875 | 0.004 | 2.20789 | 0.112 | 0.18297 | 0.0039 | core | **1371.2** | **51** | 1183.5 | 35.6 | 1083.2 | 21 |
| LM2-13 | 190 | 55 | 16.8 | 0.29 | 0.0494 | 0.004 | 0.14831 | 0.012 | 0.02176 | 0.0005 | core | 168.5 | 107.8 | 140.4 | 10.5 | **138.7** | **2.8** |
| LM2-14 | 10181 | 913 | 662.6 | 0.09 | 0.0648 | 0.051 | 0.0695 | 0.054 | 0.00778 | 0.0004 | rim | 4134.2 | 50.5 | 723.3 | 31.7 | **50** | **2.3** |
| LM2-15 | 70 | 114 | 24.6 | 1.63 | 0.0528 | 0.004 | 0.62641 | 0.049 | 0.08597 | 0.0018 | core | 321.4 | 97.7 | 493.9 | 30.8 | **531.6** | **10.4** |
| LM2-16 | 23850 | 2372 | 1052 | 0.1 | 0.0747 | 0.032 | 0.08043 | 0.034 | 0.0078 | 0.0003 | rim | 3568.9 | 58.4 | 416.4 | 19.8 | **50.1** | **2.2** |
| LM2-17 | 23971 | 6302 | 1218.1 | 0.26 | 0.0728 | 0.043 | 0.06564 | 0.038 | 0.00654 | 0.0003 | rim | 4043.9 | 45.2 | 572.2 | 24.7 | **50.5** | **1.7** |
| LM2-18 | 5001 | 250 | 157.7 | 0.05 | 0.048 | 0.003 | 0.05233 | 0.003 | 0.0079 | 0.0002 | rim | 101 | 72.1 | 51.8 | 2.9 | **50.7** | **1** |
| LM2-19 | 616 | 29 | 21.7 | 0.05 | 0.0461 | 0.005 | 0.05804 | 0.005 | 0.00914 | 0.0005 | mixture | 901.3 | 186.2 | 87.1 | 12.8 | **58.7** | **3.4** |
| LM2-20 | 146 | 56 | 12.8 | 0.38 | 0.0575 | 0.005 | 0.17282 | 0.017 | 0.02178 | 0.0005 | core | 512.4 | 116.6 | 161.9 | 15 | **138.9** | **3.1** |
| LM2-21 | 576 | 176 | 192.9 | 0.31 | 0.0585 | 0.003 | 0.6814 | 0.033 | 0.0845 | 0.0014 | core | 547.1 | 58 | 527.6 | 19.7 | **523.2** | **8.5** |
| LM2-22 | 266 | 138 | 381 | 0.52 | 0.1245 | 0.007 | 5.7038 | 0.3 | 0.3327 | 0.0086 | core | **2021.1** | **52.5** | 1931.9 | 45.5 | 1851.6 | 41.6 |
| LM2-23 | 78 | 61 | 25.6 | 0.78 | 0.0565 | 0.003 | 0.6191 | 0.036 | 0.0794 | 0.0015 | core | 473.4 | 70.5 | 489.3 | 22.6 | **492.8** | **9.1** |
| LM2-24 | 132 | 65 | 47.7 | 0.49 | 0.0584 | 0.004 | 0.7423 | 0.047 | 0.0921 | 0.0016 | core | 546.5 | 74.9 | 563.7 | 27.6 | **568** | **9.7** |
| LM2-25 | 622 | 302 | 443 | 0.49 | 0.0735 | 0.004 | 1.6992 | 0.076 | 0.168 | 0.0049 | core | **1027** | **58.9** | 1008.2 | 28.5 | 1000.9 | 26.9 |
| LM2-26 | 4915 | 207 | 142.9 | 0.04 | 0.0489 | 0.004 | 0.0523 | 0.004 | 0.0078 | 0.0003 | rim | 143.7 | 91.5 | 51.8 | 3.6 | **49.9** | **1.8** |
| LM2-27 | 72 | 43 | 26.8 | 0.6 | 0.0613 | 0.005 | 0.7988 | 0.059 | 0.0945 | 0.0019 | core | 649.2 | 89.6 | 596.2 | 33.3 | **582.3** | **11.1** |
| LM2-28 | 327 | 181 | 324.7 | 0.56 | 0.0927 | 0.004 | 3.2258 | 0.15 | 0.2524 | 0.0045 | core | **1481.7** | **49.8** | 1463.4 | 36 | 1450.9 | 23.4 |
| LM2-29 | 123 | 104 | 139.7 | 0.85 | 0.1012 | 0.005 | 4.1291 | 0.188 | 0.296 | 0.0052 | core | **1646** | **48.1** | 1660.1 | 37.1 | 1671.3 | 26.1 |
| LM2-30 | 572 | 158 | 324.1 | 0.28 | 0.0681 | 0.003 | 1.3532 | 0.065 | 0.1442 | 0.0023 | core | 871.1 | 55.4 | 868.9 | 27.9 | **868.1** | **12.7** |
| LM2-31 | 531 | 910 | 89.8 | 1.71 | 0.0502 | 0.003 | 0.3036 | 0.016 | 0.0439 | 0.0007 | core | 204.2 | 67.4 | 269.2 | 12.3 | **276.8** | **4.5** |
| LM2-32 | 4868 | 109 | 143.4 | 0.02 | 0.0486 | 0.004 | 0.0532 | 0.004 | 0.0079 | 0.0002 | rim | 128.9 | 97.8 | 52.6 | 3.6 | **51** | **1.5** |
| LM2-33 | 303 | 327 | 125.3 | 1.08 | 0.0625 | 0.003 | 0.9035 | 0.045 | 0.1049 | 0.0017 | core | 690.1 | 59.1 | 653.6 | 24 | **643.1** | **10.1** |
| LM2-34 | 182 | 88 | 66.9 | 0.49 | 0.0606 | 0.003 | 0.7834 | 0.043 | 0.0938 | 0.0016 | core | 624.3 | 67.2 | 587.4 | 24.5 | **577.9** | **9.5** |
| LM2-35 | 501 | 49 | 42.1 | 0.1 | 0.0508 | 0.003 | 0.149 | 0.01 | 0.0213 | 0.0004 | core | 231.3 | 84.2 | 141 | 8.7 | **135.7** | **2.8** |
| LM2-36 | 376 | 275 | 134.8 | 0.73 | 0.0641 | 0.004 | 0.7962 | 0.051 | 0.0902 | 0.0017 | core | 743.4 | 75.6 | 594.7 | 28.9 | **556.5** | **10.1** |
| LM2-37 | 9113 | 110 | 309.8 | 0.01 | 0.0515 | 0.004 | 0.0649 | 0.006 | 0.0092 | 0.0004 | mixture | 261.1 | 94.5 | 63.8 | 5.5 | **58.7** | **2.7** |
| LM2-38 | 149 | 88 | 113.1 | 0.59 | 0.0772 | 0.004 | 2.0866 | 0.114 | 0.1961 | 0.0037 | core | **1125.8** | **63.7** | 1144.4 | 37.5 | 1154.4 | 20.2 |
| LM2-39 | 1516 | 510 | 399.3 | 0.34 | 0.0541 | 0.003 | 0.4692 | 0.025 | 0.063 | 0.0016 | core | 373.8 | 63.3 | 390.7 | 17.1 | **393.6** | **9.5** |
| LM2-40 | 402 | 625 | 56.3 | 1.56 | 0.053 | 0.003 | 0.2612 | 0.017 | 0.0357 | 0.0007 | core | 330.2 | 79.4 | 235.6 | 13.4 | **226.3** | **4.4** |
| LM2-41 | 4858 | 66 | 133.1 | 0.01 | 0.0498 | 0.005 | 0.0507 | 0.006 | 0.0074 | 0.0003 | rim | 186.4 | 120.1 | 50.2 | 5.4 | **47.4** | **2.1** |
| LM2-42 | 4992 | 164 | 144.2 | 0.03 | 0.0496 | 0.006 | 0.0537 | 0.007 | 0.0078 | 0.0004 | rim | 177.6 | 150.1 | 53.1 | 6.7 | **50.4** | **2.7** |
| LM2-43 | 2785 | 80 | 79.2 | 0.03 | 0.0478 | 0.003 | 0.0493 | 0.003 | 0.0075 | 0.0002 | rim | 87.5 | 85.5 | 48.9 | 3.1 | **48.1** | **1** |
| LM2-44 | 7082 | 313 | 201.6 | 0.04 | 0.0523 | 0.003 | 0.0545 | 0.003 | 0.0076 | 0.0002 | rim | 296.7 | 76.9 | 53.9 | 2.9 | **48.6** | **1.1** |
| LM2-45 | 3989 | 120 | 110.2 | 0.03 | 0.0502 | 0.005 | 0.0515 | 0.005 | 0.0074 | 0.0003 | rim | 205.9 | 124.6 | 51 | 4.8 | **47.8** | **1.8** |
| LM2-46 | 153 | 84 | 13.5 | 0.55 | 0.0432 | 0.005 | 0.1286 | 0.013 | 0.0216 | 0.0005 | core | -114.5 | 115.1 | 122.8 | 11.3 | **137.8** | **3.2** |
| LM2-47 | 7343 | 577 | 221.6 | 0.08 | 0.0515 | 0.003 | 0.0561 | 0.003 | 0.0079 | 0.0002 | rim | 262 | 65.7 | 55.4 | 3 | **50.7** | **1.1** |
| LM2-48 | 2327 | 399 | 116.4 | 0.17 | 0.056 | 0.004 | 0.092 | 0.006 | 0.0119 | 0.0003 | mixture | 452.5 | 80.6 | 89.4 | 5.5 | **76.4** | **2** |