附表1 昌宁-孟连带团结地区中三叠世长石砂岩锆石LA-ICP-MS U-Pb年龄

Table 1 LA-ICP-MS zircon U-Pb data of the siliceous rock arkose from Middle Triassic in the Changning-Menglian suture zone

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 序号 | 测点号 | 含量（10-6） | | Th/U | 同位素比值 | | | | | | U-Pb年龄（Ma） | | | | | | 谐和度 | 备注 |
| Th | U | 207Pb/206Pb | 1*σ* | 207Pb/235U | 1*σ* | 206Pb/238U | 1*σ* | 207Pb/206Pb | 1*σ* | 207Pb/235U | 1*σ* | 206Pb/238U | 1*σ* |
| 1 | PM101-7TW1-01 | 844.5 | 1 157.9 | 0.7 | 0.053 4 | 0.0024 | 0.2876 | 0.0121 | 0.0391 | 0.0005 | 346 | 100.0 | 257 | 9.6 | 247 | 3.1 | 96% |  |
| 2 | PM101-7TW1-02 | 874.1 | 978.6 | 0.9 | 0.051 2 | 0.0020 | 0.2782 | 0.0104 | 0.0393 | 0.0004 | 250 | 88.9 | 249 | 8.3 | 249 | 2.7 | 99% |  |
| 3 | PM101-7TW1-03 | 797.5 | 496.7 | 1.6 | 0.0601 | 0.0034 | 0.3199 | 0.0169 | 0.0389 | 0.0005 | 606 | 122.2 | 282 | 13.0 | 246 | 3.2 | 86% | N |
| 4 | PM101-7TW1-04 | 910.7 | 1778.8 | 0.5 | 0.0539 | 0.0016 | 0.3044 | 0.0093 | 0.0407 | 0.0004 | 369 | 68.5 | 270 | 7.2 | 257 | 2.3 | 95% |  |
| 5 | PM101-7TW1-05 | 989.7 | 1552.6 | 0.6 | 0.0523 | 0.0019 | 0.2693 | 0.0092 | 0.0373 | 0.0003 | 298 | 88.0 | 242 | 7.4 | 236 | 2.0 | 97% |  |
| 6 | PM101-7TW1-06 | 189.9 | 1175.6 | 0.2 | 0.1144 | 0.0021 | 5.2995 | 0.0949 | 0.3335 | 0.0024 | 1870 | 33.3 | 1869 | 15.4 | 1856 | 11.6 | 99% |  |
| 7 | PM101-7TW1-07 | 515.8 | 523.8 | 1.0 | 0.0574 | 0.0030 | 0.3062 | 0.0159 | 0.0385 | 0.0005 | 506 | 116.7 | 271 | 12.3 | 243 | 3.0 | 89% | N |
| 8 | PM101-7TW1-08 | 583.6 | 1196.3 | 0.5 | 0.0552 | 0.0024 | 0.2902 | 0.0121 | 0.0383 | 0.0004 | 420 | 100.0 | 259 | 9.5 | 242 | 2.6 | 93% |  |
| 9 | PM101-7TW1-09 | 442.5 | 410.7 | 1.1 | 0.0946 | 0.0024 | 3.3954 | 0.0878 | 0.2587 | 0.0027 | 1520 | 47.1 | 1503 | 20.3 | 1483 | 14.0 | 98% |  |
| 10 | PM101-7TW1-10 | 454.0 | 1119.0 | 0.4 | 0.1373 | 0.0026 | 7.0022 | 0.1313 | 0.3671 | 0.0026 | 2194 | 33.3 | 2112 | 16.7 | 2016 | 12.1 | 95% |  |
| 11 | PM101-7TW1-11 | 621.5 | 928.8 | 0.7 | 0.0533 | 0.0020 | 0.2899 | 0.0105 | 0.0395 | 0.0004 | 343 | 89.8 | 259 | 8.3 | 249 | 2.7 | 96% |  |
| 12 | PM101-7TW1-12 | 664.4 | 1226.0 | 0.5 | 0.0517 | 0.0019 | 0.2729 | 0.0095 | 0.0382 | 0.0004 | 272 | 83.3 | 245 | 7.6 | 242 | 2.3 | 98% |  |
| 13 | PM101-7TW1-13 | 939.0 | 1090.9 | 0.9 | 0.0732 | 0.0014 | 1.7389 | 0.0342 | 0.1709 | 0.0013 | 1020 | 35.0 | 1023 | 12.7 | 1017 | 6.9 | 99% |  |
| 14 | PM101-7TW1-14 | 718.6 | 1708.4 | 0.4 | 0.0517 | 0.0016 | 0.2890 | 0.0086 | 0.0404 | 0.0004 | 272 | 65.7 | 258 | 6.7 | 255 | 2.3 | 99% |  |
| 15 | PM101-7TW1-15 | 1521.9 | 1742.3 | 0.9 | 0.0522 | 0.0020 | 0.2865 | 0.0105 | 0.0396 | 0.0004 | 295 | 91.7 | 256 | 8.3 | 251 | 2.3 | 97% |  |
| 16 | PM101-7TW1-16 | 1192.6 | 1433.8 | 0.8 | 0.0516 | 0.0020 | 0.2719 | 0.0103 | 0.0381 | 0.0004 | 333 | 88.9 | 244 | 8.2 | 241 | 2.2 | 98% |  |
| 17 | PM101-7TW1-17 | 303.3 | 429.4 | 0.7 | 0.0961 | 0.0024 | 3.6752 | 0.0877 | 0.2768 | 0.0025 | 1550 | 47.1 | 1566 | 19.1 | 1575 | 12.4 | 99% |  |
| 18 | PM101-7TW1-18 | 1025.5 | 2405.4 | 0.4 | 0.0517 | 0.0015 | 0.2831 | 0.0081 | 0.0396 | 0.0003 | 272 | 63.9 | 253 | 6.5 | 250 | 2.0 | 98% |  |
| 19 | PM101-7TW1-19 | 555.0 | 1161.0 | 0.5 | 0.0538 | 0.0021 | 0.3688 | 0.0131 | 0.0500 | 0.0006 | 365 | 89.8 | 319 | 9.8 | 315 | 3.4 | 98% |  |
| 20 | PM101-7TW1-20 | 588.7 | 1205.1 | 0.5 | 0.0496 | 0.0020 | 0.2559 | 0.0096 | 0.0376 | 0.0004 | 176 | 92.6 | 231 | 7.7 | 238 | 2.6 | 97% |  |
| 21 | PM101-7TW1-21 | 551.1 | 909.7 | 0.6 | 0.0558 | 0.0020 | 0.3312 | 0.0128 | 0.0426 | 0.0006 | 443 | 77.8 | 291 | 9.8 | 269 | 3.7 | 92% |  |
| 22 | PM101-7TW1-22 | 398.3 | 691.6 | 0.6 | 0.0504 | 0.0024 | 0.2660 | 0.0117 | 0.0386 | 0.0004 | 213 | 109.2 | 240 | 9.4 | 244 | 2.7 | 97% |  |
| 23 | PM101-7TW1-23 | 636.9 | 831.8 | 0.8 | 0.0559 | 0.0020 | 0.4894 | 0.0171 | 0.0633 | 0.0006 | 450 | 77.8 | 404 | 11.6 | 395 | 3.8 | 97% |  |
| 24 | PM101-7TW1-24 | 785.6 | 827.0 | 0.9 | 0.0528 | 0.0031 | 0.2878 | 0.0149 | 0.0400 | 0.0005 | 317 | 133.3 | 257 | 11.8 | 253 | 3.2 | 98% |  |
| 25 | PM101-7TW1-25 | 493.9 | 910.6 | 0.5 | 0.0550 | 0.0025 | 0.3149 | 0.0138 | 0.0415 | 0.0004 | 413 | 100.0 | 278 | 10.7 | 262 | 2.8 | 94% |  |
| 26 | PM101-7TW1-26 | 595.6 | 1721.4 | 0.3 | 0.0942 | 0.0037 | 0.5355 | 0.0219 | 0.0408 | 0.0004 | 1522 | 75.5 | 435 | 14.5 | 258 | 2.2 | 48% | N |
| 27 | PM101-7TW1-27 | 647.5 | 1134.7 | 0.6 | 0.0541 | 0.0022 | 0.2890 | 0.0112 | 0.0391 | 0.0005 | 372 | 94.4 | 258 | 8.8 | 247 | 3.0 | 95% |  |
| 28 | PM101-7TW1-28 | 391.4 | 773.6 | 0.5 | 0.0603 | 0.0020 | 0.7800 | 0.0235 | 0.0939 | 0.0008 | 617 | 70.4 | 585 | 13.4 | 579 | 4.9 | 98% |  |
| 29 | PM101-7TW1-29 | 1189.1 | 1575.5 | 0.8 | 0.0529 | 0.0017 | 0.3538 | 0.0114 | 0.0483 | 0.0004 | 324 | 72.2 | 308 | 8.6 | 304 | 2.7 | 98% |  |
| 30 | PM101-7TW1-30 | 170.6 | 304.3 | 0.6 | 0.0516 | 0.0041 | 0.2923 | 0.0205 | 0.0422 | 0.0007 | 265 | 183.3 | 260 | 16.1 | 266 | 4.0 | 97% |  |
| 31 | PM101-7TW1-31 | 549.9 | 388.5 | 1.4 | 0.0552 | 0.0034 | 0.2946 | 0.0167 | 0.0389 | 0.0006 | 420 | 138.9 | 262 | 13.1 | 246 | 3.8 | 93% |  |
| 32 | PM101-7TW1-32 | 828.8 | 1694.0 | 0.5 | 0.0526 | 0.0017 | 0.2836 | 0.0090 | 0.0390 | 0.0004 | 309 | 76.8 | 254 | 7.1 | 246 | 2.2 | 97% |  |
| 33 | PM101-7TW1-33 | 504.3 | 849.3 | 0.6 | 0.0495 | 0.0023 | 0.2637 | 0.0119 | 0.0387 | 0.0005 | 172 | 107.4 | 238 | 9.6 | 245 | 2.8 | 97% |  |
| 34 | PM101-7TW1-34 | 836.3 | 742.0 | 1.1 | 0.0548 | 0.0020 | 0.3989 | 0.0139 | 0.0528 | 0.0005 | 406 | 81.5 | 341 | 10.1 | 332 | 3.2 | 97% |  |
| 35 | PM101-7TW1-35 | 267.6 | 607.8 | 0.4 | 0.0508 | 0.0026 | 0.2736 | 0.0134 | 0.0394 | 0.0005 | 232 | 116.7 | 246 | 10.7 | 249 | 3.0 | 98% |  |
| 36 | PM101-7TW1-36 | 297.1 | 665.9 | 0.4 | 0.0569 | 0.0025 | 0.3589 | 0.0152 | 0.0458 | 0.0006 | 500 | 96.3 | 311 | 11.3 | 289 | 3.6 | 92% |  |
| 37 | PM101-7TW1-37 | 273.3 | 399.2 | 0.7 | 0.0522 | 0.0032 | 0.3007 | 0.0167 | 0.0423 | 0.0006 | 295 | 140.7 | 267 | 13.0 | 267 | 3.5 | 99% |  |
| 38 | PM101-7TW1-38 | 164.8 | 345.7 | 0.5 | 0.0552 | 0.0029 | 0.4252 | 0.0217 | 0.0560 | 0.0008 | 420 | 150.9 | 360 | 15.5 | 351 | 4.9 | 97% |  |
| 39 | PM101-7TW1-39 | 1156.3 | 804.9 | 1.4 | 0.0511 | 0.0022 | 0.2816 | 0.0120 | 0.0399 | 0.0005 | 256 | 96.3 | 252 | 9.5 | 252 | 2.9 | 99% |  |
| 40 | PM101-7TW1-40 | 179.9 | 391.8 | 0.5 | 0.1719 | 0.0041 | 10.9378 | 0.2482 | 0.4589 | 0.0036 | 2576 | 40.3 | 2518 | 21.2 | 2435 | 15.9 | 96% |  |
| 41 | PM101-7TW1-41 | 1782.7 | 1242.3 | 1.4 | 0.0602 | 0.0024 | 0.3483 | 0.0144 | 0.0416 | 0.0004 | 609 | 87.0 | 303 | 10.8 | 262 | 2.7 | 85% | N |
| 42 | PM101-7TW1-42 | 1713.9 | 2645.2 | 0.6 | 0.0908 | 0.0019 | 3.0695 | 0.0638 | 0.2431 | 0.0017 | 1444 | 40.3 | 1425 | 15.9 | 1403 | 9.1 | 98% |  |
| 43 | PM101-7TW1-43 | 921.3 | 1103.6 | 0.8 | 0.0587 | 0.0018 | 0.6003 | 0.0181 | 0.0737 | 0.0006 | 567 | 66.7 | 477 | 11.5 | 458 | 3.8 | 95% |  |
| 44 | PM101-7TW1-44 | 476.2 | 760.9 | 0.6 | 0.0541 | 0.0024 | 0.2853 | 0.0122 | 0.0384 | 0.0005 | 376 | 100.0 | 255 | 9.6 | 243 | 2.8 | 95% |  |
| 45 | PM101-7TW1-45 | 481.0 | 565.7 | 0.9 | 0.0532 | 0.0026 | 0.2802 | 0.0130 | 0.0384 | 0.0005 | 345 | 117.6 | 251 | 10.3 | 243 | 2.9 | 96% |  |
| 46 | PM101-7TW1-46 | 393.4 | 630.9 | 0.6 | 0.0733 | 0.0037 | 0.4098 | 0.0216 | 0.0402 | 0.0005 | 1033 | 103.7 | 349 | 15.6 | 254 | 3.4 | 68% | N |
| 47 | PM101-7TW1-47 | 572.4 | 805.1 | 0.7 | 0.0555 | 0.0026 | 0.2817 | 0.0123 | 0.0369 | 0.0004 | 432 | 103.7 | 252 | 9.7 | 234 | 2.2 | 92% |  |
| 48 | PM101-7TW1-48 | 478.0 | 888.3 | 0.5 | 0.0537 | 0.0021 | 0.2841 | 0.0112 | 0.0382 | 0.0004 | 367 | 95.4 | 254 | 8.8 | 242 | 2.6 | 95% |  |
| 49 | PM101-7TW1-49 | 338.2 | 654.8 | 0.5 | 0.0531 | 0.0019 | 0.4043 | 0.0149 | 0.0549 | 0.0007 | 345 | 83.3 | 345 | 10.8 | 344 | 4.0 | 99% |  |
| 50 | PM101-7TW1-50 | 319.5 | 504.8 | 0.6 | 0.0522 | 0.0028 | 0.2728 | 0.0131 | 0.0383 | 0.0005 | 300 | 120.4 | 245 | 10.4 | 243 | 3.4 | 99% |  |
| 51 | PM101-7TW1-51 | 404.8 | 1566.5 | 0.3 | 0.0502 | 0.0017 | 0.2790 | 0.0097 | 0.0402 | 0.0004 | 206 | 79.6 | 250 | 7.7 | 254 | 2.6 | 98% |  |
| 52 | PM101-7TW1-52 | 162.0 | 696.7 | 0.2 | 0.0552 | 0.0021 | 0.4385 | 0.0172 | 0.0574 | 0.0006 | 420 | 87.0 | 369 | 12.2 | 360 | 3.7 | 97% |  |
| 53 | PM101-7TW1-53 | 323.8 | 330.0 | 1.0 | 0.1192 | 0.0025 | 5.6571 | 0.1149 | 0.3427 | 0.0030 | 1946 | 37.0 | 1925 | 17.6 | 1900 | 14.5 | 98% |  |
| 54 | PM101-7TW1-54 | 577.8 | 987.6 | 0.6 | 0.0501 | 0.0023 | 0.2627 | 0.0117 | 0.0379 | 0.0004 | 198 | 99.1 | 237 | 9.4 | 240 | 2.6 | 98% |  |
| 55 | PM101-7TW1-55 | 1007.3 | 2094.1 | 0.5 | 0.0535 | 0.0017 | 0.2795 | 0.0092 | 0.0376 | 0.0004 | 350 | 72.2 | 250 | 7.3 | 238 | 2.2 | 95% |  |
| 56 | PM101-7TW1-56 | 298.5 | 601.8 | 0.5 | 0.0541 | 0.0027 | 0.2784 | 0.0125 | 0.0376 | 0.0005 | 376 | 111.1 | 249 | 9.9 | 238 | 3.1 | 95% |  |
| 57 | PM101-7TW1-57 | 2067.9 | 1551.2 | 1.3 | 0.0874 | 0.0031 | 0.8356 | 0.0295 | 0.0688 | 0.0007 | 1369 | 68.1 | 617 | 16.3 | 429 | 4.4 | 64% | N |
| 58 | PM101-7TW1-58 | 374.5 | 622.9 | 0.6 | 0.0494 | 0.0025 | 0.2648 | 0.0130 | 0.0388 | 0.0005 | 169 | 112.0 | 239 | 10.5 | 245 | 3.3 | 97% |  |
| 59 | PM101-7TW1-59 | 311.7 | 442.3 | 0.7 | 0.1576 | 0.0079 | 0.8847 | 0.0402 | 0.0419 | 0.0007 | 2431 | 84.6 | 644 | 21.6 | 265 | 4.3 | 16% | N |
| 60 | PM101-7TW1-60 | 1376.1 | 2172.2 | 0.6 | 0.0501 | 0.0015 | 0.2613 | 0.0078 | 0.0376 | 0.0003 | 198 | 68.5 | 236 | 6.2 | 238 | 1.9 | 99% |  |
| 61 | PM101-7TW1-61 | 534.7 | 934.3 | 0.6 | 0.0539 | 0.0022 | 0.2800 | 0.0105 | 0.0377 | 0.0004 | 365 | 62.0 | 251 | 8.3 | 239 | 2.7 | 95% |  |
| 62 | PM101-7TW1-62 | 167.4 | 535.9 | 0.3 | 0.0853 | 0.0020 | 2.5577 | 0.0600 | 0.2164 | 0.0018 | 1324 | 45.8 | 1289 | 17.1 | 1263 | 9.4 | 97% |  |
| 63 | PM101-7TW1-63 | 394.8 | 634.6 | 0.6 | 0.0543 | 0.0022 | 0.5218 | 0.0216 | 0.0695 | 0.0008 | 383 | 86.1 | 426 | 14.4 | 433 | 4.5 | 98% |  |
| 64 | PM101-7TW1-64 | 226.3 | 389.3 | 0.6 | 0.0457 | 0.0026 | 0.2380 | 0.0129 | 0.0377 | 0.0006 | error |  | 217 | 10.6 | 239 | 3.6 | 90% | N |
| 65 | PM101-7TW1-65 | 328.4 | 250.1 | 1.3 | 0.0951 | 0.0083 | 0.5898 | 0.0609 | 0.0419 | 0.0009 | 1529 | 165.9 | 471 | 38.9 | 265 | 5.6 | 43% | N |
| 66 | PM101-7TW1-66 | 505.3 | 952.1 | 0.5 | 0.0499 | 0.0020 | 0.2570 | 0.0098 | 0.0374 | 0.0004 | 191 | 90.7 | 232 | 7.9 | 237 | 2.4 | 98% |  |
| 67 | PM101-7TW1-67 | 747.0 | 1131.1 | 0.7 | 0.1086 | 0.0067 | 0.6822 | 0.0486 | 0.0430 | 0.0007 | 1776 | 113.3 | 528 | 29.3 | 271 | 4.1 | 35% | N |
| 68 | PM101-7TW1-68 | 643.6 | 841.2 | 0.8 | 0.0509 | 0.0021 | 0.2647 | 0.0104 | 0.0379 | 0.0004 | 235 | 94.4 | 238 | 8.3 | 240 | 2.5 | 99% |  |
| 69 | PM101-7TW1-69 | 301.2 | 177.0 | 1.7 | 0.0601 | 0.0033 | 0.7811 | 0.0403 | 0.0954 | 0.0015 | 606 | 120.4 | 586 | 23.0 | 587 | 9.1 | 99% |  |
| 70 | PM101-7TW1-70 | 236.6 | 269.4 | 0.9 | 0.0544 | 0.0033 | 0.3080 | 0.0183 | 0.0413 | 0.0007 | 387 | 132.4 | 273 | 14.2 | 261 | 4.6 | 95% |  |
| 71 | PM101-7TW1-71 | 330.0 | 753.1 | 0.4 | 0.0510 | 0.0021 | 0.2881 | 0.0112 | 0.0410 | 0.0004 | 243 | 99.1 | 257 | 8.9 | 259 | 2.8 | 99% |  |
| 72 | PM101-7TW1-72 | 221.7 | 520.5 | 0.4 | 0.1036 | 0.0024 | 4.3547 | 0.1036 | 0.3025 | 0.0027 | 1700 | 38.4 | 1704 | 19.7 | 1704 | 13.3 | 99% |  |
| 73 | PM101-7TW1-73 | 610.4 | 872.6 | 0.7 | 0.0501 | 0.0023 | 0.2637 | 0.0119 | 0.0382 | 0.0004 | 211 | 102.8 | 238 | 9.6 | 242 | 2.8 | 98% |  |
| 74 | PM101-7TW1-74 | 229.8 | 573.6 | 0.4 | 0.0527 | 0.0028 | 0.2864 | 0.0142 | 0.0396 | 0.0004 | 317 | 120.4 | 256 | 11.2 | 251 | 2.6 | 97% |  |
| 75 | PM101-7TW1-75 | 808.8 | 1213.7 | 0.7 | 0.0516 | 0.0020 | 0.2659 | 0.0095 | 0.0376 | 0.0004 | 265 | 87.0 | 239 | 7.6 | 238 | 2.5 | 99% |  |
| 76 | PM101-7TW1-76 | 255.4 | 404.4 | 0.6 | 0.0590 | 0.0035 | 0.3378 | 0.0187 | 0.0418 | 0.0006 | 565 | 134.2 | 296 | 14.2 | 264 | 4.0 | 88% | N |
| 77 | PM101-7TW1-77 | 1130.3 | 770.9 | 1.5 | 0.0554 | 0.0020 | 0.4995 | 0.0183 | 0.0651 | 0.0006 | 428 | 79.6 | 411 | 12.4 | 407 | 3.9 | 98% |  |
| 78 | PM101-7TW1-78 | 660.2 | 1027.0 | 0.6 | 0.0511 | 0.0019 | 0.2658 | 0.0095 | 0.0378 | 0.0004 | 256 | 82.4 | 239 | 7.6 | 239 | 2.4 | 99% |  |
| 79 | PM101-7TW1-79 | 323.5 | 535.2 | 0.6 | 0.0534 | 0.0024 | 0.3125 | 0.0137 | 0.0425 | 0.0005 | 346 | 101.8 | 276 | 10.6 | 269 | 3.3 | 97% |  |
| 80 | PM101-7TW1-80 | 406.7 | 814.5 | 0.5 | 0.0520 | 0.0022 | 0.3248 | 0.0139 | 0.0450 | 0.0005 | 287 | 100.9 | 286 | 10.7 | 284 | 3.2 | 99% |  |
| 81 | PM101-7TW1-81 | 487.6 | 402.5 | 1.2 | 0.0732 | 0.0022 | 1.8209 | 0.0580 | 0.1792 | 0.0019 | 1020 | 58.3 | 1053 | 20.9 | 1063 | 10.2 | 99% |  |
| 82 | PM101-7TW1-82 | 506.9 | 830.6 | 0.6 | 0.0558 | 0.0022 | 0.3564 | 0.0157 | 0.0458 | 0.0009 | 456 | 82.4 | 310 | 11.7 | 289 | 5.7 | 93% |  |
| 83 | PM101-7TW1-83 | 1270.7 | 1565.1 | 0.8 | 0.1037 | 0.0057 | 0.6596 | 0.0400 | 0.0442 | 0.0006 | 1691 | 101.9 | 514 | 24.5 | 279 | 3.6 | 40% | N |
| 84 | PM101-7TW1-84 | 335.9 | 1001.2 | 0.3 | 0.0484 | 0.0020 | 0.2540 | 0.0105 | 0.0379 | 0.0004 | 120 | 96.3 | 230 | 8.5 | 240 | 2.5 | 95% |  |
| 85 | PM101-7TW1-85 | 777.4 | 1106.5 | 0.7 | 0.0497 | 0.0018 | 0.2646 | 0.0093 | 0.0385 | 0.0004 | 189 | 83.3 | 238 | 7.5 | 244 | 2.5 | 97% |  |
| 86 | PM101-7TW1-86 | 1223.4 | 1145.4 | 1.1 | 0.0949 | 0.0018 | 3.5962 | 0.0659 | 0.2735 | 0.0020 | 1526 | 30.6 | 1549 | 14.6 | 1558 | 10.0 | 99% |  |
| 87 | PM101-7TW1-87 | 640.7 | 1002.5 | 0.6 | 0.0489 | 0.0020 | 0.2563 | 0.0103 | 0.0379 | 0.0004 | 143 | 89.8 | 232 | 8.4 | 240 | 2.5 | 96% |  |
| 88 | PM101-7TW1-88 | 622.5 | 1030.3 | 0.6 | 0.0498 | 0.0020 | 0.2640 | 0.0105 | 0.0383 | 0.0004 | 187 | 88.0 | 238 | 8.4 | 242 | 2.6 | 98% |  |
| 89 | PM101-7TW1-89 | 801.0 | 1108.0 | 0.7 | 0.0516 | 0.0021 | 0.2720 | 0.0111 | 0.0380 | 0.0004 | 333 | 97.2 | 244 | 8.9 | 241 | 2.7 | 98% |  |
| 90 | PM101-7TW1-90 | 566.3 | 857.7 | 0.7 | 0.0553 | 0.0024 | 0.3036 | 0.0137 | 0.0398 | 0.0006 | 433 | 98.1 | 269 | 10.7 | 252 | 4.0 | 93% |  |
| 91 | PM101-7TW1-91 | 254.8 | 485.0 | 0.5 | 0.0509 | 0.0026 | 0.2878 | 0.0144 | 0.0409 | 0.0005 | 235 | 113.9 | 257 | 11.3 | 258 | 3.3 | 99% |  |
| 92 | PM101-7TW1-92 | 738.1 | 1443.0 | 0.5 | 0.0526 | 0.0017 | 0.2881 | 0.0096 | 0.0394 | 0.0004 | 309 | 74.1 | 257 | 7.6 | 249 | 2.2 | 96% |  |
| 93 | PM101-7TW1-93 | 935.8 | 1873.9 | 0.5 | 0.0527 | 0.0015 | 0.3215 | 0.0094 | 0.0439 | 0.0004 | 317 | 69.4 | 283 | 7.2 | 277 | 2.3 | 97% |  |
| 94 | PM101-7TW1-94 | 791.6 | 1623.6 | 0.5 | 0.1142 | 0.0053 | 0.6864 | 0.0367 | 0.0418 | 0.0006 | 1866 | 85.0 | 531 | 22.1 | 264 | 3.6 | 32% | N |
| 95 | PM101-7TW1-95 | 864.3 | 1005.1 | 0.9 | 0.0506 | 0.0021 | 0.2626 | 0.0103 | 0.0377 | 0.0004 | 233 | 94.4 | 237 | 8.3 | 238 | 2.7 | 99% |  |
| 96 | PM101-7TW1-96 | 494.3 | 1149.1 | 0.4 | 0.0505 | 0.0019 | 0.3069 | 0.0116 | 0.0438 | 0.0005 | 217 | 90.7 | 272 | 9.0 | 277 | 2.8 | 98% |  |
| 97 | PM101-7TW1-97 | 249.2 | 526.9 | 0.5 | 0.0525 | 0.0028 | 0.2742 | 0.0141 | 0.0381 | 0.0005 | 306 | 115.7 | 246 | 11.3 | 241 | 3.1 | 97% |  |
| 98 | PM101-7TW1-98 | 216.0 | 1572.4 | 0.1 | 0.1553 | 0.0033 | 1.9135 | 0.0429 | 0.0892 | 0.0013 | 2405 | 36.9 | 1086 | 15.0 | 551 | 7.8 | 34% | N |
| 99 | PM101-7TW1-99 | 246.4 | 199.9 | 1.2 | 0.1123 | 0.0126 | 0.8912 | 0.1274 | 0.0479 | 0.0016 | 1836 | 204.8 | 647 | 68.4 | 301 | 9.8 | 27% | N |
| 100 | PM101-7TW1-100 | 775.5 | 1149.2 | 0.7 | 0.0630 | 0.0046 | 0.3468 | 0.0281 | 0.0393 | 0.0004 | 709 | 155.5 | 302 | 21.2 | 249 | 2.7 | 80% | N |
| 101 | PM101-7TW1-101 | 95.6 | 188.8 | 0.5 | 0.1126 | 0.0031 | 5.2373 | 0.1412 | 0.3365 | 0.0035 | 1843 | 49.7 | 1859 | 23.0 | 1870 | 16.8 | 99% |  |
| 102 | PM101-7TW1-102 | 187.0 | 299.8 | 0.6 | 0.0510 | 0.0035 | 0.2689 | 0.0154 | 0.0389 | 0.0006 | 239 | 161.1 | 242 | 12.3 | 246 | 3.5 | 98% |  |
| 103 | PM101-7TW1-103 | 149.5 | 333.4 | 0.4 | 0.0498 | 0.0030 | 0.2594 | 0.0141 | 0.0385 | 0.0006 | 187 | 138.9 | 234 | 11.3 | 244 | 4.0 | 96% |  |
| 104 | PM101-7TW1-104 | 166.8 | 266.3 | 0.6 | 0.0581 | 0.0030 | 0.6066 | 0.0288 | 0.0760 | 0.0011 | 600 | 112.9 | 481 | 18.2 | 472 | 6.6 | 98% |  |
|  | PM101-18TW1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | PM101-18TW1-01 | 385.1 | 979.6 | 0.4 | 0.0525 | 0.0021 | 0.3035 | 0.0121 | 0.0419 | 0.0005 | 306 | 90.7 | 269 | 9.4 | 265 | 3.0 | 98% |  |
| 2 | PM101-18TW1-02 | 588.0 | 788.8 | 0.7 | 0.0533 | 0.0025 | 0.2852 | 0.0131 | 0.0391 | 0.0005 | 339 | 105.5 | 255 | 10.4 | 247 | 3.4 | 97% |  |
| 3 | PM101-18TW1-03 | 419.1 | 850.5 | 0.5 | 0.0529 | 0.0022 | 0.2838 | 0.0110 | 0.0392 | 0.0005 | 324 | 93.5 | 254 | 8.7 | 248 | 2.9 | 97% |  |
| 4 | PM101-18TW1-04 | 415.3 | 655.5 | 0.6 | 0.1139 | 0.0071 | 0.6816 | 0.0446 | 0.0423 | 0.0005 | 1865 | 113.1 | 528 | 26.9 | 267 | 3.3 | 34% | N |
| 5 | PM101-18TW1-05 | 1031.6 | 2345.6 | 0.4 | 0.0962 | 0.0025 | 0.6982 | 0.0166 | 0.0527 | 0.0004 | 1551 | 48.6 | 538 | 9.9 | 331 | 2.7 | 52% | N |
| 6 | PM101-18TW1-06 | 650.8 | 1230.1 | 0.5 | 0.0525 | 0.0022 | 0.2809 | 0.0113 | 0.0387 | 0.0003 | 309 | 128.7 | 251 | 8.9 | 245 | 2.1 | 97% |  |
| 7 | PM101-18TW1-07 | 1826.2 | 3073.7 | 0.6 | 0.0513 | 0.0013 | 0.2758 | 0.0072 | 0.0388 | 0.0003 | 254 | 63.9 | 247 | 5.7 | 245 | 2.1 | 99% |  |
| 8 | PM101-18TW1-08 | 627.5 | 1396.5 | 0.4 | 0.0495 | 0.0016 | 0.2603 | 0.0086 | 0.0381 | 0.0004 | 172 | 77.8 | 235 | 6.9 | 241 | 2.5 | 97% |  |
| 9 | PM101-18TW1-09 | 544.5 | 806.6 | 0.7 | 0.0508 | 0.0021 | 0.2812 | 0.0103 | 0.0402 | 0.0005 | 235 | 62.0 | 252 | 8.1 | 254 | 3.0 | 99% |  |
| 10 | PM101-18TW1-10 | 1030.1 | 837.9 | 1.2 | 0.0640 | 0.0028 | 0.3574 | 0.0158 | 0.0405 | 0.0005 | 743 | 89.8 | 310 | 11.8 | 256 | 3.3 | 80% | N |
| 11 | PM101-18TW1-11 | 1197.7 | 1033.5 | 1.2 | 0.0500 | 0.0020 | 0.2676 | 0.0106 | 0.0389 | 0.0005 | 195 | 90.7 | 241 | 8.5 | 246 | 2.9 | 97% |  |
| 12 | PM101-18TW1-12 | 704.9 | 954.8 | 0.7 | 0.0541 | 0.0021 | 0.2909 | 0.0112 | 0.0390 | 0.0004 | 372 | 88.9 | 259 | 8.8 | 247 | 2.4 | 95% |  |
| 13 | PM101-18TW1-13 | 598.7 | 1093.7 | 0.5 | 0.0539 | 0.0021 | 0.2880 | 0.0106 | 0.0389 | 0.0004 | 365 | 87.0 | 257 | 8.4 | 246 | 2.7 | 95% |  |
| 14 | PM101-18TW1-14 | 714.4 | 1860.6 | 0.4 | 0.0512 | 0.0017 | 0.2750 | 0.0089 | 0.0389 | 0.0004 | 256 | 77.8 | 247 | 7.1 | 246 | 2.3 | 99% |  |
| 15 | PM101-18TW1-15 | 141.2 | 221.3 | 0.6 | 0.0600 | 0.0045 | 0.3482 | 0.0226 | 0.0424 | 0.0008 | 606 | 164.8 | 303 | 17.0 | 268 | 5.1 | 87% | N |
| 16 | PM101-18TW1-16 | 580.5 | 1156.4 | 0.5 | 0.0516 | 0.0021 | 0.2979 | 0.0121 | 0.0416 | 0.0005 | 265 | 99.1 | 265 | 9.5 | 263 | 2.9 | 99% |  |
| 17 | PM101-18TW1-17 | 1271.9 | 2991.8 | 0.4 | 0.0577 | 0.0020 | 0.3266 | 0.0129 | 0.0403 | 0.0004 | 520 | 77.8 | 287 | 9.9 | 255 | 2.8 | 88% | N |
| 18 | PM101-18TW1-18 | 618.7 | 1247.9 | 0.5 | 0.0538 | 0.0021 | 0.2786 | 0.0106 | 0.0377 | 0.0004 | 365 | 88.9 | 250 | 8.4 | 238 | 2.5 | 95% |  |
| 19 | PM101-18TW1-19 | 878.9 | 2172.0 | 0.4 | 0.0528 | 0.0015 | 0.2930 | 0.0083 | 0.0400 | 0.0004 | 320 | 63.0 | 261 | 6.5 | 253 | 2.4 | 96% |  |
| 20 | PM101-18TW1-20 | 540.3 | 741.3 | 0.7 | 0.0536 | 0.0027 | 0.3126 | 0.0145 | 0.0425 | 0.0005 | 354 | 113.0 | 276 | 11.2 | 268 | 2.9 | 97% |  |
| 21 | PM101-18TW1-21 | 1580.1 | 2004.8 | 0.8 | 0.0532 | 0.0016 | 0.2746 | 0.0083 | 0.0372 | 0.0003 | 345 | 36.1 | 246 | 6.6 | 236 | 1.9 | 95% |  |
| 22 | PM101-18TW1-22 | 987.3 | 1301.2 | 0.8 | 0.0506 | 0.0017 | 0.2819 | 0.0092 | 0.0404 | 0.0004 | 233 | 77.8 | 252 | 7.3 | 255 | 2.5 | 98% |  |
| 23 | PM101-18TW1-23 | 938.9 | 1939.2 | 0.5 | 0.0517 | 0.0016 | 0.2786 | 0.0086 | 0.0390 | 0.0004 | 333 | 72.2 | 250 | 6.8 | 246 | 2.3 | 98% |  |
| 24 | PM101-18TW1-24 | 152.9 | 287.3 | 0.5 | 0.0852 | 0.0024 | 2.5143 | 0.0678 | 0.2138 | 0.0022 | 1320 | 55.6 | 1276 | 19.6 | 1249 | 11.6 | 97% |  |
| 25 | PM101-18TW1-25 | 466.4 | 644.7 | 0.7 | 0.0548 | 0.0029 | 0.2993 | 0.0151 | 0.0398 | 0.0005 | 467 | 118.5 | 266 | 11.8 | 252 | 2.8 | 94% |  |
| 26 | PM101-18TW1-26 | 580.7 | 867.1 | 0.7 | 0.0524 | 0.0022 | 0.2764 | 0.0106 | 0.0385 | 0.0004 | 302 | 94.4 | 248 | 8.5 | 244 | 2.7 | 98% |  |
| 27 | PM101-18TW1-27 | 1111.5 | 2207.4 | 0.5 | 0.0756 | 0.0039 | 0.4690 | 0.0267 | 0.0436 | 0.0005 | 1087 | 99.1 | 391 | 18.5 | 275 | 3.1 | 65% | N |
| 28 | PM101-18TW1-28 | 263.8 | 1465.6 | 0.2 | 0.0579 | 0.0016 | 0.4779 | 0.0135 | 0.0598 | 0.0006 | 528 | 61.1 | 397 | 9.3 | 374 | 3.5 | 94% |  |
| 29 | PM101-18TW1-29 | 1143.5 | 1460.4 | 0.8 | 0.0528 | 0.0019 | 0.2904 | 0.0098 | 0.0399 | 0.0003 | 320 | 79.6 | 259 | 7.7 | 252 | 2.0 | 97% |  |
| 30 | PM101-18TW1-30 | 594.9 | 959.6 | 0.6 | 0.0496 | 0.0018 | 0.2982 | 0.0116 | 0.0435 | 0.0005 | 176 | 87.0 | 265 | 9.0 | 274 | 3.3 | 96% |  |
| 31 | PM101-18TW1-31 | 548.0 | 660.3 | 0.8 | 0.1043 | 0.0097 | 0.7297 | 0.0809 | 0.0445 | 0.0010 | 1703 | 171.9 | 556 | 47.5 | 281 | 6.0 | 34% | N |
| 32 | PM101-18TW1-32 | 1195.5 | 1803.7 | 0.7 | 0.0501 | 0.0018 | 0.2636 | 0.0092 | 0.0384 | 0.0004 | 198 | 80.5 | 238 | 7.4 | 243 | 2.4 | 97% |  |
| 33 | PM101-18TW1-33 | 556.6 | 391.7 | 1.4 | 0.0537 | 0.0032 | 0.3185 | 0.0173 | 0.0437 | 0.0006 | 367 | 135.2 | 281 | 13.3 | 276 | 3.7 | 98% |  |
| 34 | PM101-18TW1-34 | 348.4 | 514.2 | 0.7 | 0.0942 | 0.0022 | 3.4718 | 0.0811 | 0.2670 | 0.0020 | 1522 | 50.2 | 1521 | 18.5 | 1525 | 10.3 | 99% |  |
| 35 | PM101-18TW1-35 | 1056.6 | 2784.6 | 0.4 | 0.0540 | 0.0016 | 0.2986 | 0.0090 | 0.0400 | 0.0003 | 369 | 66.7 | 265 | 7.1 | 253 | 1.9 | 95% |  |
| 36 | PM101-18TW1-36 | 870.1 | 1159.3 | 0.8 | 0.0501 | 0.0020 | 0.2580 | 0.0099 | 0.0374 | 0.0004 | 198 | 90.7 | 233 | 8.0 | 237 | 2.2 | 98% |  |
| 37 | PM101-18TW1-37 | 910.2 | 1474.2 | 0.6 | 0.0483 | 0.0016 | 0.2515 | 0.0082 | 0.0378 | 0.0004 | 122 | 77.8 | 228 | 6.6 | 239 | 2.4 | 95% |  |
| 38 | PM101-18TW1-38 | 456.1 | 587.2 | 0.8 | 0.0896 | 0.0019 | 3.0350 | 0.0659 | 0.2449 | 0.0020 | 1417 | 40.7 | 1416 | 16.6 | 1412 | 10.2 | 99% |  |
| 39 | PM101-18TW1-39 | 991.3 | 976.9 | 1.0 | 0.0532 | 0.0022 | 0.2864 | 0.0112 | 0.0394 | 0.0004 | 345 | 94.4 | 256 | 8.8 | 249 | 2.6 | 97% |  |
| 40 | PM101-18TW1-40 | 1144.2 | 704.7 | 1.6 | 0.0680 | 0.0033 | 0.4041 | 0.0215 | 0.0422 | 0.0005 | 878 | 100.0 | 345 | 15.6 | 266 | 3.3 | 74% | N |
| 41 | PM101-18TW1-41 | 1742.4 | 3023.6 | 0.6 | 0.0662 | 0.0023 | 0.3623 | 0.0140 | 0.0391 | 0.0004 | 813 | 73.3 | 314 | 10.4 | 247 | 2.2 | 76% | N |
| 42 | PM101-18TW1-42 | 1504.4 | 2019.4 | 0.7 | 0.0489 | 0.0014 | 0.2747 | 0.0078 | 0.0408 | 0.0004 | 143 | 68.5 | 246 | 6.2 | 258 | 2.8 | 95% |  |
| 43 | PM101-18TW1-43 | 372.1 | 1246.3 | 0.3 | 0.0600 | 0.0022 | 0.3348 | 0.0120 | 0.0405 | 0.0005 | 606 | 77.8 | 293 | 9.1 | 256 | 2.8 | 86% | N |
| 44 | PM101-18TW1-44 | 1366.3 | 1825.1 | 0.7 | 0.0513 | 0.0017 | 0.2661 | 0.0090 | 0.0376 | 0.0004 | 257 | 77.8 | 240 | 7.2 | 238 | 2.2 | 99% |  |
| 45 | PM101-18TW1-45 | 179.3 | 277.8 | 0.6 | 0.0552 | 0.0040 | 0.3116 | 0.0203 | 0.0415 | 0.0007 | 420 | 158.3 | 275 | 15.7 | 262 | 4.4 | 95% |  |
| 46 | PM101-18TW1-46 | 943.3 | 1083.6 | 0.9 | 0.0511 | 0.0021 | 0.2785 | 0.0114 | 0.0396 | 0.0005 | 243 | 99.1 | 249 | 9.0 | 250 | 2.8 | 99% |  |
| 47 | PM101-18TW1-47 | 1053.7 | 1282.6 | 0.8 | 0.0522 | 0.0016 | 0.4724 | 0.0141 | 0.0657 | 0.0006 | 295 | 65.7 | 393 | 9.7 | 410 | 3.7 | 95% |  |
| 48 | PM101-18TW1-48 | 876.4 | 1793.5 | 0.5 | 0.0507 | 0.0017 | 0.2929 | 0.0099 | 0.0418 | 0.0005 | 228 | 74.1 | 261 | 7.8 | 264 | 3.3 | 98% |  |
| 49 | PM101-18TW1-49 | 1002.5 | 2048.9 | 0.5 | 0.0508 | 0.0016 | 0.2803 | 0.0087 | 0.0400 | 0.0004 | 232 | 67.6 | 251 | 6.9 | 253 | 2.5 | 99% |  |
| 50 | PM101-18TW1-50 | 403.2 | 978.0 | 0.4 | 0.0507 | 0.0019 | 0.3080 | 0.0117 | 0.0438 | 0.0005 | 228 | 85.2 | 273 | 9.1 | 277 | 3.4 | 98% |  |
| 51 | PM101-18TW1-51 | 310.7 | 411.6 | 0.8 | 0.0524 | 0.0029 | 0.3058 | 0.0160 | 0.0431 | 0.0006 | 302 | 132.4 | 271 | 12.4 | 272 | 3.9 | 99% |  |
| 52 | PM101-18TW1-52 | 3568.9 | 4231.8 | 0.8 | 0.2927 | 0.0141 | 2.1083 | 0.1200 | 0.0486 | 0.0008 | 3432 | 74.7 | 1152 | 39.2 | 306 | 5.1 | -17% | N |
| 53 | PM101-18TW1-53 | 894.1 | 1244.9 | 0.7 | 0.0523 | 0.0019 | 0.2890 | 0.0102 | 0.0401 | 0.0004 | 298 | 88.0 | 258 | 8.0 | 253 | 2.4 | 98% |  |
| 54 | PM101-18TW1-54 | 575.1 | 1210.8 | 0.5 | 0.0565 | 0.0023 | 0.2918 | 0.0121 | 0.0373 | 0.0004 | 472 | 92.6 | 260 | 9.5 | 236 | 2.6 | 90% |  |
| 55 | PM101-18TW1-55 | 1044.4 | 1684.7 | 0.6 | 0.0745 | 0.0036 | 0.4415 | 0.0222 | 0.0423 | 0.0004 | 1054 | 98.2 | 371 | 15.7 | 267 | 2.5 | 67% | N |
| 56 | PM101-18TW1-56 | 1351.7 | 1294.9 | 1.0 | 0.0558 | 0.0017 | 0.4978 | 0.0141 | 0.0642 | 0.0006 | 456 | 73.1 | 410 | 9.6 | 401 | 3.5 | 97% |  |
| 57 | PM101-18TW1-57 | 593.7 | 581.7 | 1.0 | 0.0583 | 0.0025 | 0.6878 | 0.0293 | 0.0847 | 0.0009 | 543 | 88.0 | 531 | 17.6 | 524 | 5.3 | 98% |  |
| 58 | PM101-18TW1-58 | 708.1 | 1498.4 | 0.5 | 0.0546 | 0.0020 | 0.2830 | 0.0102 | 0.0373 | 0.0004 | 394 | 75.0 | 253 | 8.0 | 236 | 2.3 | 93% |  |
| 59 | PM101-18TW1-59 | 706.5 | 1465.7 | 0.5 | 0.0547 | 0.0023 | 0.3205 | 0.0129 | 0.0425 | 0.0005 | 467 | 97.2 | 282 | 9.9 | 269 | 2.9 | 95% |  |
| 60 | PM101-18TW1-60 | 366.2 | 574.4 | 0.6 | 0.0539 | 0.0027 | 0.3272 | 0.0158 | 0.0443 | 0.0006 | 365 | 111.1 | 287 | 12.1 | 279 | 3.6 | 97% |  |
| 61 | PM101-18TW1-61 | 379.4 | 956.8 | 0.4 | 0.0491 | 0.0020 | 0.2654 | 0.0108 | 0.0390 | 0.0004 | 154 | 100.9 | 239 | 8.7 | 247 | 2.7 | 96% |  |
| 62 | PM101-18TW1-62 | 742.5 | 1371.9 | 0.5 | 0.0496 | 0.0018 | 0.2694 | 0.0100 | 0.0390 | 0.0004 | 176 | 80.5 | 242 | 8.0 | 247 | 2.3 | 98% |  |
| 63 | PM101-18TW1-63 | 507.8 | 491.6 | 1.0 | 0.0805 | 0.0024 | 2.3644 | 0.0740 | 0.2113 | 0.0023 | 1209 | 63.9 | 1232 | 22.3 | 1235 | 12.3 | 99% |  |
| 64 | PM101-18TW1-64 | 650.5 | 1568.6 | 0.4 | 0.0512 | 0.0018 | 0.2692 | 0.0090 | 0.0380 | 0.0004 | 256 | 79.6 | 242 | 7.2 | 241 | 2.4 | 99% |  |
| 65 | PM101-18TW1-65 | 750.5 | 1234.8 | 0.6 | 0.0503 | 0.0018 | 0.2714 | 0.0098 | 0.0389 | 0.0004 | 209 | 89.8 | 244 | 7.8 | 246 | 2.6 | 99% |  |
| 66 | PM101-18TW1-66 | 881.3 | 3214.6 | 0.3 | 0.0600 | 0.0018 | 0.3453 | 0.0103 | 0.0414 | 0.0005 | 611 | 63.0 | 301 | 7.8 | 261 | 2.8 | 85% | N |
| 67 | PM101-18TW1-67 | 1226.4 | 1656.5 | 0.7 | 0.0525 | 0.0017 | 0.2861 | 0.0088 | 0.0394 | 0.0004 | 306 | 70.4 | 255 | 7.0 | 249 | 2.4 | 97% |  |
| 68 | PM101-18TW1-68 | 269.7 | 466.9 | 0.6 | 0.1744 | 0.0032 | 11.2595 | 0.2110 | 0.4639 | 0.0036 | 2611 | 30.6 | 2545 | 17.6 | 2457 | 15.9 | 96% |  |
| 69 | PM101-18TW1-69 | 2338.6 | 3641.7 | 0.6 | 0.0519 | 0.0013 | 0.2911 | 0.0070 | 0.0404 | 0.0003 | 283 | 52.8 | 259 | 5.5 | 255 | 1.9 | 98% |  |
| 70 | PM101-18TW1-70 | 385.6 | 655.5 | 0.6 | 0.0537 | 0.0025 | 0.3203 | 0.0148 | 0.0435 | 0.0007 | 367 | 105.5 | 282 | 11.4 | 274 | 4.4 | 97% |  |
| 71 | PM101-18TW1-71 | 262.1 | 296.3 | 0.9 | 0.0547 | 0.0027 | 0.5759 | 0.0267 | 0.0771 | 0.0010 | 467 | 113.0 | 462 | 17.2 | 479 | 6.1 | 96% |  |
| 72 | PM101-18TW1-72 | 494.2 | 827.8 | 0.6 | 0.0532 | 0.0022 | 0.2827 | 0.0117 | 0.0385 | 0.0004 | 345 | 94.4 | 253 | 9.3 | 243 | 2.6 | 96% |  |
| 73 | PM101-18TW1-73 | 338.5 | 607.4 | 0.6 | 0.0540 | 0.0027 | 0.2848 | 0.0136 | 0.0389 | 0.0005 | 369 | 113.0 | 254 | 10.7 | 246 | 3.2 | 96% |  |
| 74 | PM101-18TW1-74 | 985.5 | 1496.3 | 0.7 | 0.0519 | 0.0020 | 0.2668 | 0.0107 | 0.0372 | 0.0004 | 280 | 88.9 | 240 | 8.6 | 236 | 2.7 | 98% |  |
| 75 | PM101-18TW1-75 | 198.2 | 553.5 | 0.4 | 0.0524 | 0.0029 | 0.2731 | 0.0148 | 0.0380 | 0.0005 | 302 | 130.5 | 245 | 11.8 | 241 | 3.3 | 98% |  |
| 76 | PM101-18TW1-76 | 659.6 | 1101.1 | 0.6 | 0.0831 | 0.0031 | 0.4487 | 0.0179 | 0.0389 | 0.0005 | 1273 | 72.7 | 376 | 12.6 | 246 | 2.8 | 58% | N |
| 77 | PM101-18TW1-77 | 809.4 | 1259.6 | 0.6 | 0.0517 | 0.0017 | 0.2738 | 0.0085 | 0.0386 | 0.0004 | 272 | 75.9 | 246 | 6.8 | 244 | 2.4 | 99% |  |
| 78 | PM101-18TW1-78 | 683.4 | 816.9 | 0.8 | 0.1169 | 0.0055 | 0.7112 | 0.0378 | 0.0427 | 0.0007 | 1909 | 84.9 | 545 | 22.4 | 270 | 4.1 | 32% | N |
| 79 | PM101-18TW1-79 | 515.4 | 688.8 | 0.7 | 0.0518 | 0.0023 | 0.2976 | 0.0129 | 0.0416 | 0.0005 | 276 | 101.8 | 265 | 10.1 | 263 | 3.3 | 99% |  |
| 80 | PM101-18TW1-80 | 455.9 | 1113.4 | 0.4 | 0.0526 | 0.0022 | 0.2795 | 0.0114 | 0.0385 | 0.0004 | 322 | 125.0 | 250 | 9.0 | 244 | 2.6 | 97% |  |
| 81 | PM101-18TW1-81 | 527.6 | 1403.0 | 0.4 | 0.1238 | 0.0069 | 0.7166 | 0.0414 | 0.0413 | 0.0005 | 2013 | 99.8 | 549 | 24.5 | 261 | 2.8 | 28% | N |
| 82 | PM101-18TW1-82 | 419.4 | 1053.3 | 0.4 | 0.0496 | 0.0019 | 0.2726 | 0.0106 | 0.0397 | 0.0004 | 176 | 87.0 | 245 | 8.5 | 251 | 2.8 | 97% |  |
| 83 | PM101-18TW1-83 | 464.9 | 947.0 | 0.5 | 0.0535 | 0.0023 | 0.2809 | 0.0117 | 0.0382 | 0.0004 | 350 | 100.0 | 251 | 9.3 | 242 | 2.6 | 96% |  |
| 84 | PM101-18TW1-84 | 1053.0 | 1343.8 | 0.8 | 0.0511 | 0.0019 | 0.2825 | 0.0104 | 0.0400 | 0.0004 | 256 | 80.5 | 253 | 8.2 | 253 | 2.5 | 99% |  |
| 85 | PM101-18TW1-85 | 432.9 | 665.5 | 0.7 | 0.0660 | 0.0032 | 0.3589 | 0.0188 | 0.0389 | 0.0005 | 806 | 103.7 | 311 | 14.1 | 246 | 3.0 | 76% | N |
| 86 | PM101-18TW1-86 | 1439.0 | 3339.7 | 0.4 | 0.1433 | 0.0054 | 0.8131 | 0.0294 | 0.0413 | 0.0005 | 2333 | 65.0 | 604 | 16.5 | 261 | 3.0 | 20% | N |
| 87 | PM101-18TW1-87 | 487.3 | 885.4 | 0.6 | 0.0473 | 0.0021 | 0.2491 | 0.0105 | 0.0386 | 0.0004 | 61 | 103.7 | 226 | 8.5 | 244 | 2.7 | 92% |  |
| 88 | PM101-18TW1-88 | 490.5 | 1172.3 | 0.4 | 0.0526 | 0.0021 | 0.2784 | 0.0109 | 0.0383 | 0.0004 | 322 | 123.1 | 249 | 8.7 | 242 | 2.4 | 97% |  |
| 89 | PM101-18TW1-89 | 2143.7 | 1432.0 | 1.5 | 0.2288 | 0.0070 | 1.5993 | 0.0523 | 0.0501 | 0.0008 | 3044 | 48.8 | 970 | 20.4 | 315 | 4.8 | -2% | N |
| 90 | PM101-18TW1-90 | 915.2 | 1610.1 | 0.6 | 0.0507 | 0.0017 | 0.2840 | 0.0088 | 0.0406 | 0.0004 | 228 | 75.9 | 254 | 7.0 | 256 | 2.3 | 99% |  |
| 91 | PM101-18TW1-91 | 982.7 | 1403.7 | 0.7 | 0.0503 | 0.0017 | 0.2853 | 0.0092 | 0.0411 | 0.0004 | 209 | 75.9 | 255 | 7.3 | 260 | 2.5 | 98% |  |
| 92 | PM101-18TW1-92 | 373.6 | 612.6 | 0.6 | 0.0528 | 0.0024 | 0.2905 | 0.0125 | 0.0401 | 0.0005 | 320 | 103.7 | 259 | 9.8 | 254 | 3.1 | 97% |  |
| 93 | PM101-18TW1-93 | 582.9 | 659.6 | 0.9 | 0.0530 | 0.0026 | 0.2826 | 0.0128 | 0.0390 | 0.0004 | 328 | 109.2 | 253 | 10.1 | 247 | 2.8 | 97% |  |
| 94 | PM101-18TW1-94 | 769.4 | 1790.3 | 0.4 | 0.0524 | 0.0017 | 0.2786 | 0.0093 | 0.0384 | 0.0004 | 302 | 71.3 | 250 | 7.4 | 243 | 2.5 | 97% |  |
| 95 | PM101-18TW1-95 | 1243.1 | 1414.5 | 0.9 | 0.0685 | 0.0027 | 0.6154 | 0.0234 | 0.0652 | 0.0005 | 883 | 83.3 | 487 | 14.7 | 407 | 3.2 | 82% | N |
| 96 | PM101-18TW1-96 | 847.7 | 1087.8 | 0.8 | 0.0569 | 0.0019 | 0.5030 | 0.0162 | 0.0640 | 0.0006 | 487 | 76.8 | 414 | 11.0 | 400 | 3.9 | 96% |  |
| 97 | PM101-18TW1-97 | 747.6 | 1890.0 | 0.4 | 0.0725 | 0.0029 | 0.4054 | 0.0168 | 0.0400 | 0.0004 | 1011 | 79.6 | 346 | 12.1 | 253 | 2.5 | 68% | N |
| 98 | PM101-18TW1-98 | 633.6 | 1070.8 | 0.6 | 0.0528 | 0.0020 | 0.2799 | 0.0108 | 0.0384 | 0.0004 | 320 | 117.6 | 251 | 8.6 | 243 | 2.6 | 96% |  |
| 99 | PM101-18TW1-99 | 1027.5 | 995.8 | 1.0 | 0.0538 | 0.0020 | 0.2942 | 0.0113 | 0.0395 | 0.0005 | 361 | 83.3 | 262 | 8.9 | 250 | 2.8 | 95% |  |
| 100 | PM101-18TW1-100 | 527.9 | 1178.7 | 0.4 | 0.0530 | 0.0019 | 0.2935 | 0.0101 | 0.0401 | 0.0004 | 328 | 75.0 | 261 | 8.0 | 254 | 2.6 | 97% |  |
| 101 | PM101-18TW1-101 | 1300.7 | 1353.5 | 1.0 | 0.0557 | 0.0019 | 0.3264 | 0.0109 | 0.0424 | 0.0005 | 443 | 75.9 | 287 | 8.3 | 268 | 3.0 | 93% |  |
| 102 | PM101-18TW1-102 | 690.1 | 887.4 | 0.8 | 0.0580 | 0.0018 | 0.5866 | 0.0182 | 0.0734 | 0.0007 | 532 | 68.5 | 469 | 11.7 | 457 | 4.5 | 97% |  |
| 103 | PM101-18TW1-103 | 711.7 | 1548.3 | 0.5 | 0.0537 | 0.0018 | 0.3214 | 0.0107 | 0.0431 | 0.0004 | 367 | 74.1 | 283 | 8.2 | 272 | 2.6 | 96% |  |
| 104 | PM101-18TW1-104 | 287.5 | 484.7 | 0.6 | 0.0579 | 0.0031 | 0.3174 | 0.0172 | 0.0399 | 0.0006 | 524 | 86.1 | 280 | 13.2 | 252 | 3.5 | 89% | N |

注：N代表不参加年龄统计。

附表2 昌宁－孟连带团结地区中三叠世硅质岩微量元素（10-6）组成

Table 2 Trace elements (10-6) compositions of siliceous rock from Middle Triassic in the Changning-Menglian suture zone

| 样品号 | D0006-H1 | D0006-H2 | D0006-H3 | D0006-H4 | D0006-H5 | D0006-H6 | PM101-6H1 | PM101-8H1 | PM101-8H2 | PM101-9H1 | PM101-12H1 | PM101-14H1 | PM101-14H2 | PM101-16H1 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SiO2 | 90.21 | 95.07 | 95.61 | 93.76 | 87.58 | 87.74 | 90.38 | 92.89 | 93.22 | 78.41 | 77.23 | 72.96 | 91.66 | 85.88 |
| Al2O3 | 5.30 | 2.91 | 2.48 | 3.32 | 7.46 | 5.95 | 5.26 | 3.66 | 3.68 | 9.72 | 13.61 | 10.45 | 4.87 | 7.49 |
| CaO | 0.04 | 0.03 | 0.04 | 0.06 | 0.04 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 |
| MgO | 0.14 | 0.09 | 0.11 | 0.20 | 0.44 | 0.33 | 0.23 | 0.11 | 0.12 | 0.27 | 0.35 | 0.26 | 0.30 | 0.41 |
| K2O | 0.56 | 0.33 | 0.36 | 0.74 | 1.69 | 1.30 | 1.14 | 0.48 | 0.49 | 1.53 | 2.14 | 1.57 | 1.24 | 1.79 |
| Na2O | 0.12 | 0.06 | 0.07 | 0.06 | 0.09 | 0.10 | 0.05 | 0.06 | 0.07 | 0.40 | 0.32 | 0.18 | 0.07 | 0.08 |
| TiO2 | 0.41 | 0.12 | 0.11 | 0.11 | 0.21 | 0.14 | 0.18 | 0.14 | 0.15 | 0.20 | 0.65 | 0.52 | 0.16 | 0.20 |
| P2O5 | 0.03 | 0.02 | 0.01 | 0.01 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.04 | 0.05 | 0.11 | 0.02 | 0.05 |
| MnO | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.01 | 0.00 | 0.02 | 0.02 | 0.00 | 0.00 |
| Fe2O3 | 1.11 | 0.17 | 0.19 | 0.56 | 0.30 | 1.00 | 1.02 | 1.03 | 0.85 | 5.83 | 1.62 | 9.26 | 0.32 | 1.85 |
| LOI | 2.06 | 1.18 | 1.02 | 1.16 | 2.13 | 3.36 | 1.64 | 1.51 | 1.34 | 3.52 | 3.92 | 4.60 | 1.28 | 2.20 |
| Σ | 99.99 | 99.98 | 100.00 | 99.99 | 99.98 | 99.99 | 99.99 | 99.99 | 99.99 | 99.97 | 99.95 | 99.97 | 99.96 | 99.98 |
| Li | 35.0 | 33.1 | 29.2 | 27.3 | 27.0 | 29.3 | 8.82 | 54.9 | 29.7 | 19.8 | 51.0 | 66.7 | 32.1 | 20.2 |
| Be | 0.94 | 0.33 | 0.39 | 0.37 | 1.16 | 0.71 | 0.81 | 0.31 | 0.50 | 1.33 | 1.79 | 1.75 | 0.60 | 1.17 |
| Sc | 4.35 | 2.09 | 1.88 | 3.72 | 6.17 | 5.43 | 5.38 | 2.14 | 2.04 | 5.57 | 13.5 | 9.88 | 4.89 | 8.85 |
| V | 29.6 | 12.6 | 10.8 | 16.1 | 22.6 | 20.4 | 30.4 | 17.4 | 13.3 | 25.2 | 86.5 | 69.3 | 27.7 | 28.1 |
| Cr | 24.3 | 7.71 | 7.40 | 11.6 | 13.8 | 12.8 | 20.6 | 9.10 | 10.1 | 10.8 | 45.2 | 32.1 | 16.4 | 17.5 |
| Co | 3.80 | 1.41 | 1.09 | 0.17 | 0.37 | 0.39 | 1.70 | 4.09 | 3.12 | 1.23 | 7.98 | 4.73 | 0.21 | 0.46 |
| Ni | 8.16 | 3.93 | 2.97 | 2.43 | 2.17 | 2.25 | 5.37 | 9.49 | 7.05 | 3.54 | 9.78 | 14.4 | 2.99 | 2.41 |
| Cu | 13.8 | 6.17 | 3.07 | 10.8 | 6.98 | 46.7 | 12.4 | 15.5 | 10.4 | 17.4 | 23.9 | 20.4 | 3.05 | 111 |
| Zn | 26.6 | 6.56 | 3.58 | 1.55 | 3.75 | 3.16 | 13.6 | 21.7 | 20.9 | 26.2 | 54.3 | 32.8 | 2.40 | 4.79 |
| Ga | 7.36 | 6.20 | 5.08 | 4.70 | 9.82 | 8.31 | 7.12 | 7.13 | 7.07 | 14.1 | 14.3 | 10.4 | 6.90 | 10.3 |
| Rb | 25.7 | 15.2 | 16.5 | 32.3 | 68.5 | 53.8 | 50.7 | 20.7 | 21.8 | 66.8 | 94.1 | 66.0 | 54.4 | 69.7 |
| Sr | 35.5 | 12.9 | 12.0 | 16.6 | 59.1 | 38.3 | 28.9 | 24.9 | 23.5 | 63.3 | 61.2 | 35.6 | 27.4 | 59.3 |
| Y | 14.6 | 8.77 | 8.92 | 9.40 | 15.5 | 11.3 | 7.56 | 9.06 | 11.8 | 37.6 | 26.6 | 19.2 | 11.0 | 11.4 |
| Zr | 108 | 82.9 | 61.6 | 29.3 | 86.7 | 52.6 | 42.9 | 81.0 | 104 | 142 | 157 | 124 | 45.6 | 61.4 |
| Nb | 15.1 | 20.9 | 16.9 | 3.67 | 8.16 | 6.62 | 3.85 | 19.4 | 43.6 | 26.0 | 10.1 | 7.37 | 4.33 | 6.92 |
| Sn | 0.98 | 1.13 | 0.51 | 0.84 | 1.54 | 1.33 | 1.07 | 1.24 | 1.53 | 3.84 | 2.11 | 1.39 | 1.05 | 2.05 |
| Cs | 1.23 | 0.72 | 0.78 | 1.54 | 3.53 | 2.61 | 1.84 | 1.01 | 1.02 | 4.47 | 6.35 | 4.95 | 2.37 | 3.38 |
| Ba | 92.5 | 50.8 | 53.6 | 97.9 | 273 | 205 | 172 | 79.4 | 74.2 | 206 | 276 | 194 | 173 | 280 |
| La | 12.9 | 16.8 | 8.89 | 6.03 | 19.4 | 15.0 | 11.3 | 24.7 | 32.5 | 49.9 | 24.1 | 10.3 | 11.6 | 25.7 |
| Ce | 28.6 | 37.4 | 20.7 | 14.1 | 42.6 | 33.1 | 22.6 | 52.7 | 70.5 | 102 | 48.4 | 21.3 | 29.4 | 53.8 |
| Pr | 2.86 | 3.66 | 1.82 | 1.37 | 4.47 | 3.26 | 2.30 | 5.07 | 7.02 | 11.3 | 5.47 | 2.50 | 2.68 | 5.62 |
| Nd | 11.4 | 12.8 | 7.18 | 5.49 | 18.2 | 12.2 | 8.33 | 18.4 | 23.7 | 40.9 | 20.9 | 10.4 | 9.71 | 20.4 |
| Sm | 2.41 | 1.88 | 1.44 | 1.45 | 3.64 | 2.39 | 1.49 | 2.80 | 2.78 | 7.87 | 4.40 | 2.82 | 1.89 | 3.92 |
| Eu | 0.45 | 0.30 | 0.24 | 0.22 | 0.63 | 0.38 | 0.27 | 0.55 | 0.45 | 1.06 | 0.82 | 0.60 | 0.31 | 0.50 |
| Gd | 2.19 | 1.40 | 0.93 | 1.26 | 2.94 | 1.98 | 1.14 | 1.93 | 1.67 | 5.95 | 4.14 | 2.83 | 1.63 | 2.56 |
| Tb | 0.36 | 0.22 | 0.18 | 0.23 | 0.46 | 0.32 | 0.21 | 0.26 | 0.29 | 1.09 | 0.71 | 0.51 | 0.27 | 0.37 |
| Dy | 2.30 | 1.45 | 1.21 | 1.44 | 2.63 | 1.92 | 1.25 | 1.49 | 1.86 | 6.84 | 4.27 | 3.22 | 1.77 | 2.10 |
| Ho | 0.57 | 0.35 | 0.32 | 0.33 | 0.59 | 0.41 | 0.28 | 0.35 | 0.43 | 1.47 | 0.97 | 0.70 | 0.41 | 0.45 |
| Er | 1.86 | 1.08 | 1.14 | 0.95 | 1.64 | 1.19 | 0.82 | 1.08 | 1.38 | 3.94 | 2.64 | 1.89 | 1.08 | 1.24 |
| Tm | 0.32 | 0.17 | 0.20 | 0.15 | 0.25 | 0.17 | 0.13 | 0.17 | 0.23 | 0.63 | 0.40 | 0.30 | 0.17 | 0.18 |
| Yb | 2.26 | 1.24 | 1.40 | 1.00 | 1.60 | 1.22 | 0.85 | 1.25 | 1.60 | 4.12 | 2.57 | 1.93 | 1.09 | 1.26 |
| Lu | 0.36 | 0.20 | 0.22 | 0.16 | 0.25 | 0.19 | 0.12 | 0.18 | 0.23 | 0.56 | 0.36 | 0.27 | 0.15 | 0.17 |
| Hf | 1.93 | 0.84 | 0.64 | 0.69 | 2.39 | 1.23 | 1.02 | 1.13 | 0.92 | 5.02 | 4.13 | 3.24 | 1.03 | 1.47 |
| Ta | 0.64 | 0.29 | 0.21 | 0.18 | 0.63 | 0.33 | 0.27 | 0.35 | 0.33 | 1.94 | 0.73 | 0.55 | 0.25 | 0.38 |
| Tl | 0.17 | 0.097 | 0.10 | 0.23 | 0.40 | 0.33 | 0.27 | 0.27 | 0.14 | 0.41 | 0.57 | 0.40 | 0.32 | 0.39 |
| Pb | 3.15 | 0.94 | 1.08 | 16.6 | 43.6 | 11.7 | 1.09 | 2.29 | 2.03 | 12.1 | 5.99 | 25.4 | 7.01 | 13.4 |
| Th | 2.30 | 1.49 | 1.34 | 1.80 | 6.37 | 3.54 | 3.23 | 1.83 | 1.83 | 20.1 | 9.54 | 6.63 | 2.49 | 4.93 |
| U | 1.12 | 0.77 | 0.79 | 0.87 | 0.96 | 0.87 | 0.68 | 0.82 | 0.84 | 5.19 | 2.26 | 1.80 | 0.76 | 0.91 |
| ∑REE | 68.90 | 78.93 | 45.83 | 34.20 | 99.27 | 73.79 | 51.15 | 110.91 | 144.62 | 237.62 | 120.14 | 59.53 | 62.16 | 118.32 |
| Al\* | 0.78 | 0.93 | 0.91 | 0.82 | 0.95 | 0.82 | 0.79 | 0.72 | 0.76 | 0.56 | 0.86 | 0.46 | 0.92 | 0.75 |
| Al2O3/(Al2O3+  Fe2O3) | 0.83 | 0.94 | 0.93 | 0.86 | 0.96 | 0.86 | 0.84 | 0.78 | 0.81 | 0.63 | 0.89 | 0.53 | 0.94 | 0.80 |
| U/Th | 0.49 | 0.52 | 0.59 | 0.48 | 0.15 | 0.25 | 0.21 | 0.45 | 0.46 | 0.26 | 0.24 | 0.27 | 0.31 | 0.18 |
| V/(V+Ni) | 0.78 | 0.76 | 0.78 | 0.87 | 0.91 | 0.90 | 0.85 | 0.65 | 0.65 | 0.88 | 0.90 | 0.83 | 0.90 | 0.92 |
| La/YbN | 0.55 | 1.31 | 0.62 | 0.59 | 1.18 | 1.19 | 1.29 | 1.91 | 1.96 | 1.17 | 0.91 | 0.52 | 1.03 | 1.98 |
| Ce\* | 1.02 | 1.04 | 1.11 | 1.07 | 1.00 | 1.03 | 0.96 | 1.02 | 1.01 | 0.93 | 0.92 | 0.91 | 1.15 | 0.97 |
| Eu\* | 0.86 | 0.82 | 0.88 | 0.72 | 0.84 | 0.78 | 0.91 | 1.02 | 0.89 | 0.68 | 0.84 | 0.92 | 0.78 | 0.69 |
| Y/Ho | 25.54 | 24.90 | 27.68 | 28.43 | 26.17 | 27.74 | 27.17 | 26.19 | 27.68 | 25.62 | 27.45 | 27.23 | 26.95 | 25.60 |