**Table 2** Apatite fission track data for the Qiangtang Basin

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample | Stratigraphy | *ρ*s a | *N*s b | *ρ*i a | *N*i b | *ρ*d a | *N*d b | *P*(χ2) c | *D*par d | [*U*] e | Central age f | ±1σ | Dis. g | *N.* h | MTL | ±1σ | *Nc.* i |
| (105 cm-2) | (105 cm-2) | (105 cm-2) | (μm) | (ppm) | (Ma) | | (%) | (μm) | |
| D0609 | J2*x* | 9.418 | 728 | 12.903 | 1152 | 12.4 | 8749 | 1.00 | 2.65 | 17.91 | 113.6 | 5.4 | 0 | 30 | 12.17 | 0.36 | 20 |
| D0815 | J2*x* | 10.0 | 148 | 27.365 | 405 | 12.3 | 8749 | 0.54 | 2.84 | 30.46 | 65.4 | 6.3 | 0 | 9 | / | / | / |
| ED0616 | J2*x* | 5.403 | 667 | 10.726 | 1324 | 12.0 | 8749 | 0.00 | 2.00 | 12.15 | 90.7 | 6.8 | 28 | 27 | 11.70 | 0.31 | 29 |
| ED0620 | T3*d* | 4.468 | 652 | 14.281 | 2084 | 12.0 | 8749 | 0.24 | 1.98 | 15.54 | 55 | 2.5 | 4.7 | 32 | 11.71 | 0.56 | 28 |
| EP1502 | J2*x* | 4.508 | 702 | 14.456 | 2251 | 12.2 | 8749 | 0.00 | 2.23 | 16.84 | 55.6 | 3.7 | 25 | 28 | 10.84 | 0.44 | 29 |
| EP1503 | J2*b* | 4.775 | 609 | 19.247 | 2445 | 12.1 | 8749 | 0.14 | 2.20 | 22.7 | 44.6 | 2.3 | 14 | 30 | 9.26 | 0.39 | 31 |
| EP1504-09 | K2*a* | 5.256 | 1048 | 18.776 | 3744 | 12.1 | 8749 | 0.23 | 2.55 | 19.54 | 49.1 | 2 | 10 | 40 | 13.4 | 0.45 | 15 |
| EP1504-17 | K2*a* | 5.848 | 576 | 17.188 | 1693 | 12.0 | 8749 | 0.03 | 3.49 | 18.01 | 62.5 | 4.2 | 17 | 18 | 14.54 | 0.32 | 5 |
| EP1505 | T3*d* | 7.043 | 836 | 23.361 | 2773 | 12.2 | 8749 | 0.40 | 2.40 | 28.59 | 53.7 | 2.4 | 9.2 | 32 | 12.87 | 0.29 | 22 |
| EP1506 | T3*d* | 9.154 | 638 | 19.283 | 1344 | 12.2 | 8749 | 0.93 | 2.48 | 22.32 | 84.1 | 4 | 0 | 30 | 13.75 | 0.48 | 17 |
| PQ1503 | J2*q* | 4.492 | 549 | 15.921 | 1946 | 11.3 | 6621 | 0.00 | 1.74 | 17.11 | 40.1 | 2.6 | 23 | 30 | 12.59 | 0.14 | 101 |
| PQ1506 | J2*x* | 9.082 | 801 | 12.492 | 1190 | 12.4 | 8749 | 100 | 2.15 | 16.52 | 120.9 | 5.5 | 0 | 32 | 12.01 | 0.22 | 37 |

a ρs, ρi, ρd are track densities of spontaneous, induced and dosimeter tracks.

b Ns, Ni, Nd are the number of spontaneous, induced and dosimeter tracks.

c P(χ2) is the value of chi-square test (Galbraith, 1981; Green, 1981).

d *D*par is the etch pit diameter, which is used as a proxy for the influence of chemical composition on track annealing (Donelick *et al.*, 2005).

e Uranium content calculated with TrackKey (Dunkl, 2002).

f Central ages are calculated using TrackKey (Dunkl, 2002) with 1σ standard error. Ages are calculated with a ζ=292.4±17.9 for a standard IRMM540 glass.

g Dispersion is the standard deviation of the true single-grain ages as a percentage of their central age (Galbraith, 2005).

h N. is the number of grains counted for age calculation.

i Nc. is the number of measured horizontal confined tracks.