Supplementary Table 5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Step |   | Treatment |   | Observed |
|  | pIRIR225 | pIRIR290 |   |  | IRSL50 |  |   |
| 1 |  | Regenerative Dose1 | Regenerative Dose1 |  |  | Regenerative Dose1 |  |  |
| 2 |  | Preheat (250°C for 60 s) | Preheat (320°C for 60 s) |  |  | Preheat (250°C for 10 s) |  |  |
| 3 |  | IRSL (200 s at 50°C) | IRSL (200 s at 50°C) |  |  | - |  |  |
| 4 |  | IRSL (200 s at 225°C) | IRSL (200 s at 290°C) |  |  | IRSL (300 s at 50°C) |  | Ln/x |
| 5 |  | Test dose | Test dose |  |  | Test dose |  |  |
| 6 |  | Preheat (250°C for 60 s) | Preheat (320°C for 60 s) |  |  | Preheat (250°C for 10 s) |  |  |
| 7 |  | IRSL (200 s at 50°C) | IRSL (200 s at 50°C) |  |  | - |  |  |
| 8 |  | IRSL (200 s at 225°C) | IRSL (200 s at 290°C) |  |  | IRSL (300 s at 50°C) |  | Tn/x |
| 9 |  | IRSL (40 s at 290°C) | IRSL (100 s at 325°C) |  |  | - |  |  |
| 10 |   | Return to 1 | Return to 1 |   |   | Return to 1 |   |   |
| Signal integral |  | 0-1.6 s | 0-2.4 s |  |  | 0-18 s |  |  |
| Background integral |   | 180-200 s | 100-200 s |   |   | 270-300 s |   |   |
| 1 When measuring the natural signal (Ln) in the first cycle this is 0. |  |  |  |  |  |