**附表1 花山群岩石样品主量元素**

**Table 1 Major elements of rocks from Huashan area**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 送样号 | 岩性 | SiO2 | Al2O3 | TFe2O3 | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | MnO | H2O- | 烧失量 |
| SN01 | 红色粉砂-细砂岩 | 66.35 | 15.15 | 6.86 | 1.59 | 0.07 | 0.086 | 4.40 | 0.83 | 0.081 | 0.12 | 0.84 | 4.54 |
| SN02 | 细砂岩 | 62.56 | 5.10 | 5.35 | 3.60 | 9.91 | 0.24 | 0.18 | 0.44 | 0.16 | 0.083 | 1.66 | 12.28 |
| SN03 | 黄绿色泥质粉砂岩 | 47.47 | 11.88 | 6.74 | 4.84 | 11.20 | 3.24 | 2.25 | 0.82 | 0.15 | 0.11 | 0.78 | 11.00 |
| SN04 | 硅质岩 | 49.25 | 14.08 | 4.07 | 4.66 | 9.11 | 3.73 | 4.25 | 1.11 | 0.19 | 0.067 | 1.16 | 9.1 |
| SN05 | 黄绿色泥质粉砂岩 | 58.20 | 15.54 | 6.69 | 3.32 | 1.46 | 4.11 | 1.62 | 1.14 | 0.18 | 0.028 | 3.44 | 7.52 |
| SN06 | 硅质岩 | 85.13 | 8.35 | 0.086 | 0.033 | 0.17 | 4.00 | 1.09 | 0.13 | 0.076 | 0.002 | 0.16 | 0.48 |
| SN07 | 紫红色泥质粉砂岩 | 57.47 | 11.60 | 7.27 | 3.38 | 6.79 | 0.031 | 3.58 | 0.71 | 0.20 | 0.039 | 0.44 | 8.94 |
| SN08 | 泥质粉砂岩 | 56.26 | 10.71 | 4.32 | 3.52 | 9.88 | 0.023 | 3.26 | 0.64 | 0.13 | 0.056 | 0.46 | 11.24 |
| SN09 | 灰绿色泥质粉砂岩 | 53.75 | 8.41 | 3.58 | 3.20 | 13.92 | 0.02 | 2.17 | 0.50 | 0.099 | 0.094 | 0.38 | 13.76 |
| SN10 | 紫红色泥质粉砂岩 | 68.08 | 11.90 | 5.89 | 4.89 | 0.22 | 0.027 | 2.25 | 0.65 | 0.12 | 0.015 | 0.88 | 5.42 |
| SN11 | 灰绿色泥质粉砂岩 | 65.60 | 18.66 | 2.37 | 2.11 | 0.19 | 0.13 | 5.09 | 1.02 | 0.12 | 0.005 | 0.74 | 4.74 |
| SN12 | 灰绿色中砂岩 | 59.80 | 23.53 | 1.55 | 1.89 | 0.084 | 0.19 | 6.45 | 1.08 | 0.099 | 0.004 | 0.58 | 4.84 |
| SN13 | 泥质粉砂岩 | 61.66 | 21.14 | 2.45 | 2.34 | 0.24 | 0.16 | 5.63 | 0.99 | 0.17 | 0.012 | 0.88 | 5.22 |
| SN14 | 细砂岩 | 61.99 | 20.8 | 2.58 | 2.44 | 0.26 | 0.15 | 5.45 | 0.97 | 0.17 | 0.007 | 0.72 | 5.08 |
| SN15 | 玄武岩 | 50.57 | 14.08 | 11.63 | 6.04 | 8.46 | 4.60 | 0.22 | 1.6 | 0.18 | 0.17 | 0.12 | 1.88 |
| SN16 | 玄武岩 | 50.66 | 13.35 | 13.24 | 5.46 | 7.22 | 4.94 | 0.21 | 2.12 | 0.24 | 0.17 | 0.22 | 1.80 |
| SN17 | 玄武岩 | 54.46 | 13.39 | 10.38 | 3.63 | 7.41 | 6.04 | 0.14 | 2.16 | 0.26 | 0.13 | 0.20 | 1.40 |
| SN18 | 玄武岩 | 52.76 | 14.88 | 9.70 | 5.77 | 6.87 | 5.05 | 0.45 | 1.44 | 0.16 | 0.15 | 0.30 | 2.42 |
| SN19 | 玄武岩 | 50.93 | 12.87 | 10.98 | 5.99 | 9.39 | 4.58 | 0.28 | 1.65 | 0.16 | 0.15 | 0.16 | 2.46 |

**附表2 花山群岩石样品稀土元素**

**Table 2 Rare earth elements of rocks from Huashan area**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 样品号 | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu |
| SN01 | 46.6 | 88.3 | 10.5 | 38.3 | 6.37 | 1.27 | 5.17 | 0.89 | 5.59 | 1.18 | 3.39 | 0.53 | 3.70 | 0.53 |
| SN02 | 36.9 | 66.8 | 7.43 | 27.4 | 4.55 | 0.98 | 3.76 | 0.59 | 3.72 | 0.66 | 1.94 | 0.28 | 1.76 | 0.25 |
| SN03 | 24.8 | 47.9 | 5.85 | 23.6 | 5.30 | 1.28 | 4.75 | 0.77 | 4.52 | 0.93 | 2.46 | 0.36 | 2.28 | 0.33 |
| SN04 | 29.9 | 60.6 | 7.23 | 28.7 | 5.79 | 1.37 | 5.33 | 0.86 | 5.19 | 1.07 | 3.02 | 0.44 | 2.75 | 0.42 |
| SN05 | 27.5 | 30.3 | 7.00 | 29.7 | 6.54 | 1.35 | 6.11 | 0.98 | 6.36 | 1.25 | 3.50 | 0.52 | 3.24 | 0.47 |
| SN06 | 11.1 | 22.2 | 2.61 | 9.57 | 1.76 | 0.30 | 1.43 | 0.23 | 1.47 | 0.35 | 1.15 | 0.19 | 1.31 | 0.21 |
| SN07 | 30.5 | 57.3 | 6.63 | 26.7 | 5.65 | 1.23 | 5.40 | 0.82 | 4.99 | 0.98 | 2.77 | 0.43 | 2.76 | 0.41 |
| SN08 | 30.6 | 48.1 | 5.91 | 23.7 | 4.51 | 0.95 | 4.25 | 0.61 | 3.55 | 0.70 | 2.02 | 0.29 | 2.05 | 0.31 |
| SN09 | 30.4 | 38.0 | 5.46 | 22.0 | 4.54 | 0.85 | 4.72 | 0.77 | 4.20 | 0.79 | 1.95 | 0.28 | 1.79 | 0.29 |
| SN10 | 25.7 | 43.5 | 5.25 | 20.3 | 3.95 | 0.75 | 3.15 | 0.52 | 3.15 | 0.61 | 1.75 | 0.28 | 1.77 | 0.27 |
| SN11 | 39.9 | 60.8 | 6.64 | 24.8 | 5.06 | 0.99 | 5.78 | 1.16 | 8.43 | 1.75 | 5.06 | 0.77 | 4.87 | 0.72 |
| SN12 | 55.6 | 124 | 16.1 | 66.1 | 13.0 | 2.85 | 9.50 | 1.44 | 8.83 | 1.78 | 5.12 | 0.78 | 4.41 | 0.69 |
| SN13 | 53.5 | 114 | 14.7 | 60.7 | 11.2 | 2.30 | 8.10 | 1.22 | 7.89 | 1.57 | 4.45 | 0.68 | 4.18 | 0.64 |
| SN14 | 51.5 | 111 | 14.3 | 59.1 | 10.9 | 2.17 | 7.81 | 1.19 | 7.78 | 1.53 | 4.46 | 0.65 | 4.23 | 0.65 |
| SN15 | 7.22 | 18.4 | 2.66 | 13.8 | 4.22 | 1.46 | 5.38 | 0.95 | 6.10 | 1.22 | 3.53 | 0.50 | 3.31 | 0.52 |
| SN16 | 9.03 | 23.8 | 3.54 | 17.8 | 5.42 | 1.73 | 6.40 | 1.17 | 7.53 | 1.50 | 4.30 | 0.64 | 4.09 | 0.62 |
| SN17 | 7.81 | 19.7 | 3.14 | 15.7 | 5.38 | 1.59 | 6.52 | 1.22 | 7.83 | 1.57 | 4.49 | 0.66 | 4.06 | 0.62 |
| SN18 | 5.09 | 13.7 | 2.14 | 11.4 | 3.58 | 1.25 | 4.49 | 0.85 | 5.44 | 1.13 | 3.10 | 0.45 | 2.89 | 0.42 |
| SN19 | 4.59 | 13.0 | 2.08 | 11.3 | 3.80 | 1.27 | 4.86 | 0.92 | 5.61 | 1.19 | 3.37 | 0.50 | 3.13 | 0.49 |

**附表3 花山群岩石样品微量元素**

**Table 3 Trace elements of rocks from Huashan area**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 样品号 | Li | Be | Sc | V | Cr | Co | Ni | Cu | Zn | Ga | Rb | Sr | Y | Zr | Nb | Sn | Cs | Ba | Hf | Ta | Pb | Th | U |
| SN01 | 31.6 | 2.50 | 16.7 | 93.3 | 62.7 | 18.7 | 36.1 | 4.60 | 77.0 | 20.2 | 122 | 24.0 | 32.0 | 212 | 13.4 | 2.51 | 5.79 | 902 | 5.35 | 0.92 | 6.81 | 9.03 | 2.05 |
| SN02 | 40.2 | 0.69 | 9.21 | 57.4 | 41.9 | 101 | 80.5 | 51.1 | 57.8 | 9.19 | 5.24 | 65.0 | 21.3 | 104 | 6.85 | 0.93 | 0.26 | 32.1 | 2.62 | 1.36 | 21.3 | 2.72 | 1.04 |
| SN03 | 20.2 | 1.29 | 12.4 | 92.7 | 48.2 | 25.5 | 36.4 | 7.48 | 119 | 16.4 | 31.9 | 147 | 27.9 | 130 | 10.1 | 3.32 | 0.50 | 594 | 3.40 | 0.73 | 6.25 | 5.29 | 1.55 |
| SN04 | 19.9 | 0.87 | 17.1 | 107 | 85.4 | 37.8 | 44.4 | 6.02 | 48.9 | 12.7 | 61.1 | 110 | 31.1 | 192 | 14.5 | 6.11 | 0.65 | 947 | 5.20 | 1.16 | 3.94 | 8.27 | 2.45 |
| SN05 | 39.8 | 2.17 | 21.7 | 138 | 85.0 | 31.4 | 55.1 | 19.7 | 77.7 | 17.9 | 40.5 | 59.0 | 37.6 | 188 | 14.5 | 2.03 | 1.81 | 366 | 4.94 | 1.08 | 11.7 | 7.40 | 1.77 |
| SN06 | 4.71 | 0.41 | 2.17 | 2.98 | 6.10 | 361 | 147 | 4.19 | 3.34 | 4.96 | 10.9 | 15.1 | 10.4 | 68.3 | 4.71 | 0.29 | 0.091 | 87.2 | 2.16 | 2.97 | 3.69 | 4.96 | 1.13 |
| SN07 | 32.8 | 1.92 | 14.1 | 110 | 57.5 | 25.4 | 37.7 | 2.52 | 71.3 | 15.4 | 128 | 48.4 | 28.6 | 145 | 11.2 | 2.25 | 5.41 | 350 | 3.90 | 0.85 | 13.5 | 7.83 | 1.69 |
| SN08 | 34.4 | 1.35 | 12.5 | 89.1 | 55.0 | 30.1 | 40.5 | 2.65 | 76.6 | 14.4 | 111 | 75.6 | 23.3 | 121 | 10.3 | 1.72 | 3.67 | 291 | 3.18 | 0.79 | 3.45 | 6.77 | 1.95 |
| SN09 | 33.6 | 1.12 | 8.98 | 63.0 | 44.2 | 41.9 | 42.4 | 4.15 | 72.2 | 11.2 | 77.2 | 86.2 | 27.1 | 107 | 8.31 | 1.32 | 2.94 | 236 | 2.85 | 0.79 | 2.60 | 5.59 | 1.59 |
| SN10 | 68.2 | 1.57 | 13.6 | 96.9 | 68.0 | 31.3 | 47.4 | 8.74 | 98.1 | 16.0 | 79.2 | 10.5 | 17.8 | 125 | 11.4 | 2.01 | 2.77 | 340 | 3.23 | 0.78 | 1.31 | 7.07 | 1.44 |
| SN11 | 20.7 | 3.29 | 13.4 | 62.9 | 19.3 | 8.87 | 13.2 | 10.1 | 41.9 | 23.4 | 155 | 14.4 | 56.2 | 373 | 13.8 | 3.52 | 3.16 | 1285 | 9.19 | 0.85 | 1.78 | 12.6 | 3.01 |
| SN12 | 13.2 | 3.39 | 15.4 | 48.9 | 4.47 | 4.34 | 5.37 | 54.1 | 29.6 | 27.0 | 209 | 12.0 | 54.9 | 449 | 13.9 | 3.54 | 3.91 | 1472 | 10.9 | 0.93 | 2.84 | 15.2 | 3.23 |
| SN13 | 25.6 | 3.14 | 15.0 | 55.9 | 15.0 | 9.55 | 11.8 | 14.4 | 42.6 | 24.1 | 172 | 14.5 | 47.2 | 386 | 13.0 | 3.12 | 3.63 | 1254 | 9.45 | 0.92 | 2.65 | 13.6 | 3.30 |
| SN14 | 27.5 | 3.00 | 15.0 | 55.3 | 14.2 | 7.05 | 11.6 | 14.8 | 45.8 | 23.9 | 171 | 14.7 | 47.2 | 376 | 12.7 | 2.98 | 3.73 | 1249 | 9.13 | 0.85 | 2.56 | 13.3 | 3.26 |
| SN15 | 22.4 | 0.62 | 47.7 | 304 | 257 | 78.8 | 103 | 95.1 | 71.9 | 13.5 | 3.58 | 357 | 35.0 | 116 | 3.31 | 1.00 | 0.25 | 99.1 | 3.00 | 0.58 | 3.35 | 0.88 | 0.22 |
| SN16 | 14.1 | 0.66 | 47.9 | 340 | 114 | 79.7 | 75.3 | 93.9 | 84.8 | 13.7 | 1.38 | 177 | 41.9 | 158 | 4.63 | 1.37 | 0.067 | 75.2 | 4.11 | 0.64 | 1.73 | 1.52 | 0.43 |
| SN17 | 7.68 | 1.27 | 49.7 | 341 | 106 | 97.7 | 74.9 | 94.5 | 47.8 | 12.1 | 0.97 | 75.6 | 43.5 | 161 | 4.80 | 1.43 | 0.12 | 46.3 | 4.18 | 0.95 | 3.37 | 1.54 | 0.41 |
| SN18 | 23.5 | 0.54 | 43.3 | 269 | 250 | 78.9 | 94.5 | 55.2 | 74.7 | 12.4 | 8.55 | 248 | 30.8 | 101 | 2.96 | 0.91 | 0.56 | 101 | 2.67 | 0.58 | 1.23 | 0.82 | 0.14 |
| SN19 | 13.0 | 0.53 | 47.9 | 299 | 254 | 100 | 95.5 | 99.0 | 53.2 | 12.9 | 4.33 | 210 | 32.3 | 114 | 3.38 | 0.99 | 0.19 | 81.4 | 3.10 | 0.72 | 3.50 | 0.92 | 0.21 |

**附表4 D44-10和D44-11锆石U-Pb定年结果**

**Table 4 The U-Pb isotope data of D44-10 and D44-11**

| 分析点 |  | Th/U |  | 元素含量/10-6 | | |  | 同位素比值 | | | | | |  | 年龄/（Ma） | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Pb | Th | U |  | 207Pb/206Pb | 1σ | 207Pb/235U | 1σ | 206Pb/238U | 1σ |  | 207Pb/206Pb | 1σ | 207Pb/235U | 1σ | 206Pb/238U | 1σ | 谐和度 |
| D44-10-1 |  | 2.1 |  | 405.8 | 680.2 | 329.8 |  | 0.0868 | 0.0029 | 2.8851 | 0.0936 | 0.2392 | 0.0024 |  | 1366.7 | 60.2 | 1378.0 | 24.5 | 1382.3 | 12.6 | 99% |
| D44-10-2 |  | 0.7 |  | 206.5 | 406.2 | 546.3 |  | 0.0684 | 0.0024 | 1.2993 | 0.0450 | 0.1369 | 0.0014 |  | 883.3 | 74.1 | 845.4 | 19.9 | 826.9 | 7.7 | 97% |
| ~~D44-10-3~~ |  | ~~1.6~~ |  | ~~337.0~~ | ~~3233.0~~ | ~~2020.4~~ |  | ~~0.0510~~ | ~~0.0018~~ | ~~0.2616~~ | ~~0.0094~~ | ~~0.0369~~ | ~~0.0003~~ |  | ~~239.0~~ | ~~83.3~~ | ~~235.9~~ | ~~7.6~~ | ~~233.6~~ | ~~2.2~~ | ~~99%~~ |
| D44-10-4 |  | 0.9 |  | 298.8 | 651.4 | 758.7 |  | 0.0650 | 0.0019 | 1.2223 | 0.0361 | 0.1356 | 0.0014 |  | 772.2 | 63.0 | 810.8 | 16.5 | 819.7 | 7.9 | 98% |
| D44-10-5 |  | 0.8 |  | 244.3 | 501.6 | 646.5 |  | 0.0687 | 0.0019 | 1.2922 | 0.0372 | 0.1356 | 0.0013 |  | 900.0 | 58.5 | 842.3 | 16.5 | 820.0 | 7.6 | 97% |
| ~~D44-10-6~~ |  | ~~0.8~~ |  | ~~111.6~~ | ~~650.7~~ | ~~780.2~~ |  | ~~0.0551~~ | ~~0.0027~~ | ~~0.3631~~ | ~~0.0170~~ | ~~0.0481~~ | ~~0.0005~~ |  | ~~413.0~~ | ~~109.3~~ | ~~314.6~~ | ~~12.7~~ | ~~302.6~~ | ~~3.2~~ | ~~96%~~ |
| D44-10-7 |  | 0.1 |  | 875.9 | 230.8 | 4389.2 |  | 0.0665 | 0.0015 | 1.2571 | 0.0306 | 0.1363 | 0.0014 |  | 820.4 | 52.8 | 826.6 | 13.8 | 823.6 | 7.7 | 99% |
| D44-10-8 |  | 1.3 |  | 730.3 | 1826.1 | 1440.5 |  | 0.0662 | 0.0017 | 1.2499 | 0.0336 | 0.1360 | 0.0012 |  | 813.0 | 55.6 | 823.4 | 15.2 | 822.1 | 7.1 | 99% |
| ~~D44-10-9~~ |  | ~~0.8~~ |  | ~~61.9~~ | ~~822.8~~ | ~~997.8~~ |  | ~~0.0517~~ | ~~0.0036~~ | ~~0.1470~~ | ~~0.0102~~ | ~~0.0206~~ | ~~0.0003~~ |  | ~~272.3~~ | ~~162.0~~ | ~~139.3~~ | ~~9.1~~ | ~~131.4~~ | ~~1.8~~ | ~~94%~~ |
| D44-10-10 |  | 1.5 |  | 312.7 | 798.2 | 529.0 |  | 0.0685 | 0.0027 | 1.3291 | 0.0465 | 0.1416 | 0.0018 |  | 883.3 | -117.6 | 858.5 | 20.3 | 853.9 | 10.1 | 99% |
| D44-10-11 |  | 0.9 |  | 264.8 | 542.9 | 622.3 |  | 0.0678 | 0.0023 | 1.2843 | 0.0446 | 0.1367 | 0.0012 |  | 862.7 | 70.4 | 838.7 | 19.8 | 825.9 | 7.1 | 98% |
| D44-10-12 |  | 1.1 |  | 343.1 | 658.5 | 578.4 |  | 0.0742 | 0.0021 | 1.6926 | 0.0465 | 0.1651 | 0.0015 |  | 1055.6 | 57.4 | 1005.8 | 17.5 | 985.0 | 8.3 | 97% |
| D44-10-13 |  | 0.6 |  | 168.2 | 291.0 | 458.9 |  | 0.0707 | 0.0025 | 1.3369 | 0.0451 | 0.1372 | 0.0013 |  | 947.8 | 72.2 | 861.9 | 19.6 | 828.9 | 7.4 | 96% |
| ~~D44-10-14~~ |  | ~~1.0~~ |  | ~~260.3~~ | ~~560.8~~ | ~~566.5~~ |  | ~~0.0759~~ | ~~0.0026~~ | ~~1.4182~~ | ~~0.0437~~ | ~~0.1362~~ | ~~0.0015~~ |  | ~~1092.3~~ | ~~62.8~~ | ~~896.6~~ | ~~18.4~~ | ~~823.0~~ | ~~8.6~~ | ~~91%~~ |
| D44-11-2 |  | 0.6 |  | 482.0 | 228.3 | 362.1 |  | 0.1843 | 0.0036 | 13.1084 | 0.2639 | 0.5132 | 0.0039 |  | 2691.7 | 32.7 | 2687.5 | 19.0 | 2670.1 | 16.6 | 99% |
| ~~D44-11-3~~ |  | ~~0.6~~ |  | ~~589.0~~ | ~~1550.0~~ | ~~2753.6~~ |  | ~~0.0591~~ | ~~0.0014~~ | ~~0.7188~~ | ~~0.0174~~ | ~~0.0878~~ | ~~0.0009~~ |  | ~~568.6~~ | ~~51.8~~ | ~~549.9~~ | ~~10.3~~ | ~~542.5~~ | ~~5.1~~ | ~~98%~~ |
| D44-11-4 |  | 0.8 |  | 256.5 | 568.5 | 676.0 |  | 0.0674 | 0.0021 | 1.2576 | 0.0368 | 0.1361 | 0.0017 |  | 850.0 | 69.4 | 826.8 | 16.6 | 822.6 | 9.9 | 99% |
| ~~D44-11-5~~ |  | ~~0.4~~ |  | ~~198.4~~ | ~~473.1~~ | ~~1183.9~~ |  | ~~0.0578~~ | ~~0.0018~~ | ~~0.6671~~ | ~~0.0209~~ | ~~0.0837~~ | ~~0.0009~~ |  | ~~520.4~~ | ~~68.5~~ | ~~518.9~~ | ~~12.7~~ | ~~518.3~~ | ~~5.4~~ | ~~99%~~ |
| D44-11-6 |  | 0.8 |  | 267.9 | 572.7 | 688.2 |  | 0.0694 | 0.0021 | 1.3197 | 0.0412 | 0.1374 | 0.0015 |  | 922.2 | 59.1 | 854.4 | 18.1 | 830.2 | 8.7 | 97% |
| D44-11-7 |  | 0.8 |  | 293.8 | 614.9 | 757.2 |  | 0.0671 | 0.0021 | 1.2849 | 0.0407 | 0.1386 | 0.0016 |  | 842.6 | 64.8 | 839.0 | 18.1 | 836.5 | 9.1 | 99% |
| D44-11-8 |  | 0.4 |  | 595.2 | 225.8 | 520.5 |  | 0.1804 | 0.0043 | 12.9676 | 0.3176 | 0.5186 | 0.0050 |  | 2657.4 | 39.5 | 2677.3 | 23.1 | 2693.2 | 21.1 | 99% |
| D44-11-9 |  | 0.2 |  | 359.4 | 109.3 | 558.0 |  | 0.1240 | 0.0029 | 6.2493 | 0.1472 | 0.3638 | 0.0032 |  | 2013.9 | 41.5 | 2011.4 | 20.6 | 2000.3 | 15.0 | 99% |
| D44-11-10 |  | 1.0 |  | 637.4 | 562.9 | 543.2 |  | 0.1312 | 0.0028 | 7.1539 | 0.1614 | 0.3932 | 0.0041 |  | 2114.5 | 37.7 | 2130.8 | 20.1 | 2137.5 | 19.0 | 99% |
| ~~D44-11-11~~ |  | ~~2.0~~ |  | ~~310.5~~ | ~~3126.0~~ | ~~1599.7~~ |  | ~~0.0512~~ | ~~0.0020~~ | ~~0.2671~~ | ~~0.0101~~ | ~~0.0378~~ | ~~0.0004~~ |  | ~~255.6~~ | ~~88.9~~ | ~~240.3~~ | ~~8.1~~ | ~~239.3~~ | ~~2.6~~ | ~~99%~~ |
| D44-11-12 |  | 1.5 |  | 435.0 | 314.3 | 210.7 |  | 0.1835 | 0.0040 | 13.2724 | 0.2877 | 0.5225 | 0.0058 |  | 2684.9 | 35.3 | 2699.2 | 20.5 | 2709.8 | 24.7 | 99% |
| ~~D44-11-13~~ |  | ~~1.9~~ |  | ~~288.1~~ | ~~3000.4~~ | ~~1538.9~~ |  | ~~0.0568~~ | ~~0.0024~~ | ~~0.2879~~ | ~~0.0118~~ | ~~0.0367~~ | ~~0.0004~~ |  | ~~483.4~~ | ~~90.7~~ | ~~256.9~~ | ~~9.3~~ | ~~232.6~~ | ~~2.7~~ | ~~90%~~ |
| ~~D44-11-14~~ |  | ~~1.2~~ |  | ~~1321.9~~ | ~~4435.2~~ | ~~3763.6~~ |  | ~~0.1017~~ | ~~0.0029~~ | ~~1.2056~~ | ~~0.0337~~ | ~~0.0854~~ | ~~0.0007~~ |  | ~~1654.6~~ | ~~-146.8~~ | ~~803.2~~ | ~~15.5~~ | ~~528.2~~ | ~~4.4~~ | ~~58%~~ |
| ~~D44-11-15~~ |  | ~~0.3~~ |  | ~~1485.0~~ | ~~831.7~~ | ~~2804.4~~ |  | ~~0.1187~~ | ~~0.0026~~ | ~~4.7730~~ | ~~0.1088~~ | ~~0.2891~~ | ~~0.0026~~ |  | ~~1936.1~~ | ~~39.8~~ | ~~1780.2~~ | ~~19.1~~ | ~~1636.9~~ | ~~13.0~~ | ~~91%~~ |
| D44-11-16 |  | 1.0 |  | 338.5 | 800.7 | 794.5 |  | 0.0681 | 0.0020 | 1.2858 | 0.0368 | 0.1360 | 0.0013 |  | 872.2 | 59.3 | 839.5 | 16.3 | 822.1 | 7.5 | 97% |
| D44-11-17 |  | 1.5 |  | 561.7 | 1546.9 | 1043.7 |  | 0.0672 | 0.0018 | 1.2969 | 0.0362 | 0.1387 | 0.0015 |  | 855.6 | 55.6 | 844.3 | 16.0 | 837.1 | 8.7 | 99% |
| D44-11-18 |  | 0.7 |  | 1672.3 | 1479.4 | 2205.3 |  | 0.1030 | 0.0020 | 4.1843 | 0.0776 | 0.2917 | 0.0019 |  | 1679.9 | 35.2 | 1670.9 | 15.2 | 1649.8 | 9.7 | 98% |
| ~~D44-11-19~~ |  | ~~2.1~~ |  | ~~819.7~~ | ~~6084.3~~ | ~~2891.4~~ |  | ~~0.1171~~ | ~~0.0040~~ | ~~0.6942~~ | ~~0.0265~~ | ~~0.0420~~ | ~~0.0005~~ |  | ~~1922.2~~ | ~~61.1~~ | ~~535.3~~ | ~~15.9~~ | ~~265.2~~ | ~~3.2~~ | ~~32%~~ |
| D44-11-20 |  | 0.8 |  | 246.4 | 497.6 | 630.7 |  | 0.0682 | 0.0021 | 1.3031 | 0.0385 | 0.1378 | 0.0014 |  | 873.8 | 95.4 | 847.1 | 17.0 | 832.1 | 8.1 | 98% |
| ~~D44-11-21~~ |  | ~~1.1~~ |  | ~~1845.1~~ | ~~5997.8~~ | ~~5397.8~~ |  | ~~0.0809~~ | ~~0.0021~~ | ~~0.9413~~ | ~~0.0232~~ | ~~0.0836~~ | ~~0.0007~~ |  | ~~1220.4~~ | ~~51.8~~ | ~~673.5~~ | ~~12.2~~ | ~~517.8~~ | ~~4.4~~ | ~~73%~~ |

注：删除线标记的数据为不和谐的年龄值，判断可能是样品混入污染的结果，不参与年龄计算。