表1 相山铀矿田邹家山矿床英安斑岩脉的主量元素（%）和微量元素（×10-6）的含量分析结果

Table 1 Major elements( %)and trace elements compositions(×10-6)of dacitic porphyry of Zoujiashan deposit in Xiangshan uranium orefield

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 样品编号 | XS16-11-7 | XS16-11-8 | XS16-11-9 | Z15-2 | Z15-7 | Z15-10 | Z15-11 |
| 采样位置 | 露天采场 | 露天采场 | 露天采场 | -130m中段 | -130m中段 | -130m中段 | -130m中段 |
| SiO2 | 67.09 | 66.41 | 67.31 | 67.29 | 67.91 | 67.01 | 67.85 |
| Al2O3 | 16.67 | 16.78 | 16.62 | 15.95 | 16.45 | 16.30 | 16.30 |
| TFe2O3 | 5.04 | 5.40 | 5.06 | 5.65 | 5.14 | 5.54 | 5.14 |
| MgO | 1.30 | 1.35 | 1.26 | 1.49 | 1.18 | 1.60 | 1.40 |
| CaO | 0.54 | 0.43 | 0.63 | 0.70 | 0.31 | 0.52 | 0.50 |
| Na2O | 1.58 | 1.68 | 1.87 | 0.96 | 0.31 | 0.68 | 0.64 |
| K2O | 4.43 | 4.44 | 4.30 | 3.75 | 4.72 | 4.28 | 4.27 |
| MnO | 0.10 | 0.11 | 0.10 | 0.10 | 0.04 | 0.08 | 0.06 |
| TiO2 | 0.73 | 0.74 | 0.68 | 0.79 | 0.66 | 0.67 | 0.68 |
| P2O5 | 0.08 | 0.08 | 0.06 | 0.09 | 0.12 | 0.10 | 0.08 |
| LOL | 2.41 | 2.54 | 2.09 | 3.14 | 3.10 | 3.22 | 3.03 |
| FeO | 1.45 | 1.58 | 1.93 | 3.25 | 3.21 | 3.98 | 3.54 |
| Total | 99.97 | 99.96 | 99.98 | 99.91 | 99.94 | 100 | 99.95 |
| Sc | 13.7 | 15.6 | 11.5 | 14.7 | 14.8 | 12.7 | 13.8 |
| V | 78.9 | 90.7 | 74.9 | 102 | 95.5 | 82.9 | 89.9 |
| Cr | 54.4 | 62.2 | 49.8 | 71.6 | 60.2 | 53.9 | 60.7 |
| Co | 13 | 15.3 | 12.2 | 16.6 | 16.5 | 13.7 | 14.2 |
| Ni | 17.3 | 22.4 | 21.1 | 32.3 | 25.7 | 26.4 | 28.7 |
| Cu | 11.4 | 9.66 | 12.3 | 39.6 | 16.3 | 29 | 28.7 |
| Zn | 91.6 | 95.9 | 85.8 | 106 | 62.1 | 106 | 86 |
| Ga | 21.8 | 23.1 | 21.6 | 23.6 | 25.8 | 23.5 | 22.7 |
| Rb | 233 | 248 | 237 | 214 | 361 | 274 | 274 |
| Sr | 91.4 | 106 | 108 | 52.9 | 28 | 36.6 | 45.6 |
| Y | 33.2 | 41 | 32.5 | 30 | 33.9 | 28.5 | 29 |
| Cs | 21.4 | 19.1 | 21.2 | 35.9 | 46.3 | 33.9 | 41.7 |
| Ba | 532 | 606 | 561 | 557 | 431 | 438 | 492 |
| La | 47 | 52.2 | 51.1 | 47.6 | 48.6 | 45.5 | 46.7 |
| Ce | 94.7 | 105 | 96 | 99.2 | 96.4 | 89.3 | 95.6 |
| Pr | 10.2 | 11.2 | 11.5 | 11 | 11.4 | 9.95 | 10.6 |
| Nd | 38.8 | 43 | 42.8 | 40 | 41.4 | 36.4 | 37.8 |
| Sm | 6.88 | 8.24 | 8.15 | 7.31 | 7.94 | 6.58 | 7 |
| Eu | 1.13 | 1.31 | 1.23 | 1.4 | 1.19 | 1.05 | 1.15 |
| Gd | 6.04 | 7.14 | 6.51 | 6.15 | 6.71 | 5.64 | 5.66 |
| Tb | 1.1 | 1.28 | 1.18 | 1.11 | 1.2 | 1.02 | 1.03 |
| Dy | 6.09 | 7.36 | 6.44 | 5.33 | 5.9 | 5.13 | 5.33 |
| Ho | 1.18 | 1.42 | 1.22 | 1.07 | 1.21 | 1.02 | 0.965 |
| Er | 3.42 | 4.26 | 3.29 | 3.12 | 3.48 | 2.97 | 2.9 |
| Tm | 0.576 | 0.721 | 0.605 | 0.517 | 0.626 | 0.49 | 0.512 |
| Yb | 3.8 | 4.67 | 3.71 | 3.48 | 4.18 | 3.4 | 3.3 |
| Lu | 0.55 | 0.684 | 0.561 | 0.487 | 0.594 | 0.447 | 0.447 |
| Pb | 23.8 | 26.3 | 25.8 | 21.9 | 13.3 | 14 | 12.6 |
| Th | 20 | 21.2 | 21.1 | 18.2 | 23 | 18.9 | 19.4 |
| U | 3.19 | 3.26 | 3.93 | 3.81 | 5.7 | 3.98 | 5.32 |
| Nb | 21.5 | 23.3 | 22.4 | 22.1 | 23.6 | 20.7 | 21 |
| Ta | 1.8 | 1.87 | 1.88 | 1.66 | 1.79 | 1.64 | 1.62 |
| Zr | 139 | 154 | 145 | 182 | 166 | 141 | 149 |
| Hf | 4.68 | 5.04 | 5.04 | 5.74 | 5.61 | 4.74 | 4.89 |

表2 相山铀矿田邹家山矿床英安斑岩脉的LA-ICP-MS锆石U-Pb定年结果

Table 2 LA-ICP-MS zircon U-Pb dating results of dacitic porphyry of Zoujiashan deposit in Xiangshan uranium orefield

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 点号 | Th | U | Th/U | 207Pb/206Pb | 1σ | 207Pb/235U | 1σ | 206Pb/238U | 1σ | 208Pb/232Th | 1σ | 207Pb/206Pb（Ma） | 1σ | 207Pb/235U（Ma） | 1σ | 206Pb/238U（Ma） | 1σ |
| ×10-6 | ×10-6 |
| XS16-11-8-1 | 416 | 256 | 1.63  | 0.05266 | 0.00852 | 0.1335 | 0.0184 | 0.0194 | 0.0007 | 0.0067 | 0.0003 | 314 | 244 | 127 | 16 | 124 | 4 |
| XS16-11-8-2 | 170 | 278 | 0.61  | 0.04836 | 0.00554 | 0.1253 | 0.0135 | 0.0194 | 0.0006 | 0.0066 | 0.0004 | 117 | 186 | 120 | 12 | 124 | 4 |
| XS16-11-8-3 | 362 | 1037 | 0.35  | 0.05043 | 0.00459 | 0.1341 | 0.0116 | 0.0196 | 0.0006 | 0.006 | 0.0003 | 215 | 141 | 128 | 10 | 125 | 4 |
| XS16-11-8-4 | 279 | 530 | 0.53  | 0.04867 | 0.00978 | 0.13 | 0.0286 | 0.0191 | 0.0007 | 0.0064 | 0.0006 | 132 | 345 | 124 | 26 | 122 | 4 |
| XS16-11-8-5 | 262 | 304 | 0.86  | 0.05291 | 0.01235 | 0.139 | 0.0308 | 0.0197 | 0.0011 | 0.0065 | 0.0004 | 325 | 356 | 132 | 27 | 126 | 7 |
| XS16-11-8-6 | 202 | 370 | 0.55  | 0.05245 | 0.00581 | 0.1376 | 0.0137 | 0.0194 | 0.0006 | 0.0059 | 0.0004 | 305 | 167 | 131 | 12 | 124 | 4 |
| XS16-11-8-7 | 67 | 189 | 0.35  | 0.04724 | 0.00811 | 0.1242 | 0.0184 | 0.0193 | 0.0007 | 0.007 | 0.0006 | 61 | 236 | 119 | 17 | 123 | 4 |
| XS16-11-8-8 | 349 | 383 | 0.91  | 0.0527 | 0.0088 | 0.1328 | 0.019 | 0.0194 | 0.0006 | 0.0067 | 0.0005 | 316 | 265 | 127 | 17 | 124 | 4 |
| XS16-11-8-9 | 140 | 450 | 0.31  | 0.04889 | 0.00585 | 0.1321 | 0.0152 | 0.0197 | 0.0004 | 0.0069 | 0.0005 | 143 | 217 | 126 | 14 | 126 | 3 |
| XS16-11-8-10 | 73.5 | 327 | 0.22  | 0.05179 | 0.00626 | 0.1326 | 0.0142 | 0.0194 | 0.0006 | 0.0064 | 0.0005 | 276 | 188 | 126 | 13 | 124 | 4 |
| XS16-11-8-11 | 89.2 | 137 | 0.65  | 0.05098 | 0.01078 | 0.134 | 0.0267 | 0.0194 | 0.0006 | 0.0075 | 0.0007 | 240 | 340 | 128 | 24 | 124 | 3 |
| XS16-11-8-12 | 201 | 434 | 0.46  | 0.04778 | 0.00448 | 0.1289 | 0.0129 | 0.0193 | 0.0005 | 0.0078 | 0.0005 | 88 | 171 | 123 | 12 | 123 | 3 |
| XS16-11-8-13 | 96.3 | 415 | 0.23  | 0.05056 | 0.00525 | 0.1328 | 0.0134 | 0.0191 | 0.0005 | 0.007 | 0.0006 | 221 | 183 | 127 | 12 | 122 | 3 |
| XS16-11-8-14 | 241 | 375 | 0.64  | 0.05256 | 0.00704 | 0.1387 | 0.0183 | 0.0191 | 0.0005 | 0.0076 | 0.0004 | 310 | 253 | 132 | 16 | 122 | 3 |
| XS16-11-8-15 | 84.2 | 238 | 0.35  | 0.05253 | 0.00861 | 0.141 | 0.0187 | 0.0197 | 0.0007 | 0.0067 | 0.0006 | 309 | 235 | 134 | 17 | 125 | 4 |
| XS16-11-8-16 | 181 | 897 | 0.20  | 0.04809 | 0.00438 | 0.1262 | 0.0107 | 0.0191 | 0.0004 | 0.0073 | 0.0005 | 104 | 150 | 121 | 10 | 122 | 2 |
| XS16-11-8-17 | 274 | 310 | 0.88  | 0.0555 | 0.00864 | 0.1443 | 0.0207 | 0.0195 | 0.0007 | 0.0066 | 0.0004 | 432 | 260 | 137 | 18 | 125 | 4 |
| XS16-11-8-18 | 168 | 505 | 0.33  | 0.04843 | 0.00657 | 0.1343 | 0.0198 | 0.0196 | 0.0006 | 0.0066 | 0.0009 | 120 | 250 | 128 | 18 | 125 | 4 |
| XS16-11-8-19 | 492 | 1789 | 0.28  | 0.0507 | 0.0024 | 0.1342 | 0.006 | 0.019 | 0.0003 | 0.0064 | 0.0002 | 227 | 76 | 128 | 5 | 122 | 2 |
| Z15-245-1 | 274 | 216 | 1.27  | 0.05326 | 0.00733 | 0.1511 | 0.0171 | 0.0204 | 0.001 | 0.0061 | 0.0004 | 340 | 168 | 143 | 15 | 130 | 6 |
| Z15-245-2 | 297 | 491 | 0.60  | 0.04917 | 0.00444 | 0.131 | 0.0108 | 0.0193 | 0.0005 | 0.0058 | 0.0003 | 156 | 142 | 125 | 10 | 123 | 3 |
| Z15-245-3 | 1095 | 1503 | 0.73  | 0.04816 | 0.00251 | 0.1302 | 0.0065 | 0.0195 | 0.0003 | 0.0058 | 0.0002 | 107 | 87 | 124 | 6 | 125 | 2 |
| Z15-245-4 | 208 | 220 | 0.95  | 0.04894 | 0.00745 | 0.1266 | 0.0155 | 0.0196 | 0.0008 | 0.0062 | 0.0004 | 145 | 196 | 121 | 14 | 125 | 5 |
| Z15-245-5 | 479 | 420 | 1.14  | 0.05072 | 0.0061 | 0.1306 | 0.015 | 0.0193 | 0.0005 | 0.0047 | 0.0002 | 228 | 206 | 125 | 13 | 123 | 3 |
| Z15-245-6 | 228 | 327 | 0.70  | 0.05487 | 0.00636 | 0.1439 | 0.0139 | 0.02 | 0.0008 | 0.0061 | 0.0004 | 407 | 141 | 137 | 12 | 128 | 5 |
| Z15-245-7 | 1041 | 663 | 1.57  | 0.05375 | 0.00467 | 0.1544 | 0.0114 | 0.0213 | 0.0004 | 0.0067 | 0.0002 | 360 | 132 | 146 | 10 | 136 | 3 |
| Z15-245-8 | 141 | 359 | 0.39  | 0.04827 | 0.00455 | 0.1316 | 0.0118 | 0.02 | 0.0005 | 0.0069 | 0.0004 | 112 | 157 | 126 | 11 | 127 | 3 |
| Z15-245-9 | 57.9 | 102 | 0.57  | 0.04927 | 0.01246 | 0.1378 | 0.0309 | 0.0193 | 0.001 | 0.0086 | 0.0009 | 161 | 329 | 131 | 28 | 123 | 7 |
| Z15-245-10 | 147 | 342 | 0.43  | 0.04963 | 0.00649 | 0.133 | 0.0152 | 0.0193 | 0.0006 | 0.0073 | 0.0005 | 178 | 203 | 127 | 14 | 123 | 4 |
| Z15-245-11 | 165 | 554 | 0.30  | 0.0507 | 0.00889 | 0.1321 | 0.0215 | 0.0194 | 0.0006 | 0.0053 | 0.0007 | 227 | 286 | 126 | 19 | 124 | 4 |
| Z15-245-12 | 163 | 366 | 0.45  | 0.04713 | 0.00739 | 0.1261 | 0.0176 | 0.0193 | 0.0009 | 0.0072 | 0.0009 | 56 | 219 | 121 | 16 | 123 | 5 |
| Z15-245-13 | 167 | 324 | 0.52  | 0.05248 | 0.00747 | 0.1366 | 0.0187 | 0.0193 | 0.0007 | 0.0065 | 0.0006 | 307 | 245 | 130 | 17 | 123 | 4 |
| Z15-245-14 | 141 | 606 | 0.23  | 0.05012 | 0.00583 | 0.1384 | 0.0149 | 0.0202 | 0.0006 | 0.0091 | 0.0008 | 200 | 190 | 132 | 13 | 129 | 4 |
| Z15-245-15 | 70.3 | 143 | 0.49  | 0.04904 | 0.00864 | 0.1375 | 0.0298 | 0.0195 | 0.0007 | 0.0071 | 0.0006 | 150 | 342 | 131 | 27 | 125 | 4 |
| Z15-245-16 | 134 | 568 | 0.24  | 0.04945 | 0.00615 | 0.1306 | 0.0157 | 0.0194 | 0.0008 | 0.009 | 0.0012 | 169 | 193 | 125 | 14 | 124 | 5 |
| Z15-245-17 | 111 | 423 | 0.26  | 0.05122 | 0.00878 | 0.139 | 0.0207 | 0.0197 | 0.0008 | 0.007 | 0.0007 | 251 | 259 | 132 | 18 | 126 | 5 |
| Z15-245-18 | 266 | 483 | 0.55  | 0.04691 | 0.00574 | 0.1331 | 0.0157 | 0.0205 | 0.0006 | 0.0068 | 0.0004 | 45 | 206 | 127 | 14 | 131 | 4 |
| Z15-245-19 | 165 | 400 | 0.41  | 0.04955 | 0.00536 | 0.1362 | 0.0135 | 0.0203 | 0.0008 | 0.0065 | 0.0008 | 174 | 153 | 130 | 12 | 129 | 5 |
| Z15-245-20 | 263 | 221 | 1.19  | 0.0533 | 0.00634 | 0.1514 | 0.0163 | 0.0215 | 0.0006 | 0.0069 | 0.0004 | 342 | 195 | 143 | 14 | 137 | 4 |
| Z15-245-21 | 191 | 814 | 0.23  | 0.04852 | 0.00548 | 0.1365 | 0.0127 | 0.0207 | 0.0007 | 0.0066 | 0.0006 | 125 | 146 | 130 | 11 | 132 | 4 |

表3 相山铀矿田邹家山矿床英安斑岩脉的锆石Hf同位素组成分析结果

Table 3 Zircon Hfisotopic compositron of dacitic porphyry of Zoujiashan deposit in Xiangshan uranium orefield

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 点号 | Age(Ma) | 176Yb/177Hf | 176Lu/177Hf | 2σ | 176Hf/177Hf | 2σ | εHf(0) | εHf(*t*) | *t*DM(Ma) | *t*DM2(Ma) | *f*Lu/Hf |
| XS16-11-8-01 | 124 | 0.055967 | 0.001579 | 0.000065 | 0.282410 | 0.000019 | -12.8  | -10.2  | 1209 | 1831 | -0.95 |
| XS16-11-8-02 | 124 | 0.039903 | 0.001071 | 0.000012 | 0.282446 | 0.000018 | -11.5  | -8.9  | 1142 | 1748 | -0.97 |
| XS16-11-8-03 | 125 | 0.053829 | 0.001500 | 0.000010 | 0.282466 | 0.000019 | -10.8  | -8.2  | 1126 | 1703 | -0.95 |
| XS16-11-8-04 | 122 | 0.039077 | 0.001146 | 0.000012 | 0.282482 | 0.000016 | -10.3  | -7.7  | 1093 | 1668 | -0.97 |
| XS16-11-8-05 | 126 | 0.034560 | 0.001082 | 0.000019 | 0.282406 | 0.000018 | -12.9  | -10.3  | 1197 | 1834 | -0.97 |
| XS16-11-8-06 | 124 | 0.026110 | 0.000720 | 0.000016 | 0.282503 | 0.000016 | -9.5  | -6.8  | 1051 | 1617 | -0.98 |
| XS16-11-8-07 | 123 | 0.028659 | 0.000840 | 0.000009 | 0.282500 | 0.000016 | -9.6  | -7.0  | 1060 | 1627 | -0.97 |
| XS16-11-8-08 | 124 | 0.036599 | 0.001224 | 0.000029 | 0.282377 | 0.000015 | -14.0  | -11.3  | 1243 | 1902 | -0.96 |
| XS16-11-8-09 | 126 | 0.038175 | 0.001061 | 0.000007 | 0.282531 | 0.000016 | -8.5  | -5.9  | 1022 | 1556 | -0.97 |
| XS16-11-8-10 | 124 | 0.014060 | 0.000404 | 0.000011 | 0.282470 | 0.000015 | -10.7  | -8.0  | 1089 | 1691 | -0.99 |
| XS16-11-8-11 | 124 | 0.020120 | 0.000558 | 0.000020 | 0.282508 | 0.000016 | -9.4  | -6.7  | 1041 | 1607 | -0.98 |
| XS16-11-8-12 | 123 | 0.032317 | 0.000870 | 0.000009 | 0.282445 | 0.000016 | -11.6  | -8.9  | 1137 | 1749 | -0.97 |
| XS16-11-8-13 | 122 | 0.027112 | 0.000771 | 0.000004 | 0.282469 | 0.000015 | -10.7  | -8.1  | 1101 | 1696 | -0.98 |
| XS16-11-8-14 | 122 | 0.036234 | 0.001054 | 0.000017 | 0.282466 | 0.000017 | -10.8  | -8.3  | 1113 | 1704 | -0.97 |
| XS16-11-8-15 | 125 | 0.031007 | 0.000917 | 0.000005 | 0.282441 | 0.000014 | -11.7  | -9.0  | 1143 | 1756 | -0.97 |
| XS16-11-8-16 | 122 | 0.042236 | 0.001188 | 0.000016 | 0.282482 | 0.000014 | -10.3  | -7.7  | 1094 | 1668 | -0.96 |
| XS16-11-8-17 | 125 | 0.042503 | 0.001310 | 0.000015 | 0.282273 | 0.000019 | -17.7  | -15.0  | 1393 | 2135 | -0.96 |
| XS16-11-8-18 | 125 | 0.028333 | 0.000830 | 0.000004 | 0.282463 | 0.000018 | -10.9  | -8.3  | 1111 | 1708 | -0.97 |
| XS16-11-8-19 | 122 | 0.024589 | 0.000685 | 0.000002 | 0.282588 | 0.000019 | -6.5  | -3.9  | 932 | 1428 | -0.98 |
| Z15-245-01 | 130 | 0.048156 | 0.001382 | 0.000032 | 0.282402 | 0.000018 | -13.1  | -10.3  | 1213 | 1843 | -0.96 |
| Z15-245-02 | 123 | 0.039865 | 0.001111 | 0.000017 | 0.282448 | 0.000016 | -11.5  | -8.8  | 1140 | 1744 | -0.97 |
| Z15-245-03 | 125 | 0.065686 | 0.001779 | 0.000046 | 0.282400 | 0.000020 | -13.2  | -10.6  | 1229 | 1853 | -0.95 |
| Z15-245-04 | 125 | 0.034039 | 0.000981 | 0.000013 | 0.282492 | 0.000019 | -9.9  | -7.2  | 1074 | 1643 | -0.97 |
| Z15-245-05 | 123 | 0.048067 | 0.001479 | 0.000015 | 0.282393 | 0.000020 | -13.4  | -10.8  | 1229 | 1868 | -0.96 |
| Z15-245-06 | 128 | 0.017109 | 0.000575 | 0.000012 | 0.282408 | 0.000015 | -12.9  | -10.1  | 1179 | 1827 | -0.98 |
| Z15-245-07 | 136 | 0.048820 | 0.001547 | 0.000011 | 0.282348 | 0.000018 | -15.0  | -12.2  | 1295 | 1961 | -0.95 |
| Z15-245-08 | 127 | 0.027641 | 0.000869 | 0.000009 | 0.282701 | 0.000016 | -2.5  | 0.2  | 777 | 1170 | -0.97 |
| Z15-245-09 | 123 | 0.035606 | 0.001029 | 0.000023 | 0.282507 | 0.000017 | -9.4  | -6.7  | 1054 | 1610 | -0.97 |
| Z15-245-10 | 123 | 0.026775 | 0.000762 | 0.000008 | 0.282483 | 0.000018 | -10.2  | -7.6  | 1081 | 1664 | -0.98 |
| Z15-245-11 | 124 | 0.021551 | 0.000651 | 0.000008 | 0.282259 | 0.000022 | -18.2  | -15.5  | 1388 | 2163 | -0.98 |
| Z15-245-12 | 123 | 0.086334 | 0.002451 | 0.000041 | 0.282600 | 0.000018 | -6.1  | -3.6  | 960 | 1409 | -0.93 |
| Z15-245-13 | 123 | 0.034561 | 0.000963 | 0.000011 | 0.282480 | 0.000016 | -10.3  | -7.7  | 1090 | 1670 | -0.97 |
| Z15-245-14 | 129 | 0.031458 | 0.000961 | 0.000010 | 0.282073 | 0.000017 | -24.7  | -22.0  | 1658 | 2575 | -0.97 |
| Z15-245-15 | 125 | 0.023755 | 0.000705 | 0.000007 | 0.282510 | 0.000017 | -9.3  | -6.6  | 1041 | 1601 | -0.98 |
| Z15-245-16 | 124 | 0.034143 | 0.000985 | 0.000013 | 0.282487 | 0.000016 | -10.1  | -7.4  | 1081 | 1654 | -0.97 |
| Z15-245-17 | 126 | 0.028272 | 0.000814 | 0.000012 | 0.282472 | 0.000015 | -10.6  | -7.9  | 1097 | 1686 | -0.98 |
| Z15-245-18 | 131 | 0.039487 | 0.001136 | 0.000011 | 0.282455 | 0.000017 | -11.2  | -8.4  | 1130 | 1722 | -0.97 |
| Z15-245-19 | 129 | 0.031609 | 0.000926 | 0.000014 | 0.282478 | 0.000017 | -10.4  | -7.6  | 1093 | 1673 | -0.97 |
| Z15-245-20 | 137 | 0.063868 | 0.001836 | 0.000023 | 0.282511 | 0.000017 | -9.2  | -6.4  | 1072 | 1598 | -0.94 |
| Z15-245-21 | 132 | 0.043937 | 0.001236 | 0.000019 | 0.282492 | 0.000016 | -9.9  | -7.1  | 1082 | 1641 | -0.96 |