|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Analytical settings and standards used for WDX analysis by EPMA | | | | |
|  | JEOL 8530F, Accelerating voltage: 15 kV, Current: 20 nA | | | | |
|  | Element | X-ray Line | analysing crystal | Standard | On Peak Time |
|  |
|  | F | Kα | LDE1 | topaz | 100 |
|  | Na | Kα | TAP | jadeite | 20 |
|  | Mg | Kα | TAP | dolomite | 20 |
|  | Al | Kα | TAP | topaz | 20 |
|  | Si | Kα | TAP | K feldspar | 20 |
|  | P | Kα | PETH | monazite | 30 |
|  | S | Kα | PETH | baryte | 30 |
|  | Cl | Kα | PETH | tugtupite | 30 |
|  | K | Kα | PETH | K feldspar | 20 |
|  | Ca | Kα | PETH | calcite | 20 |
|  | Mn | Kα | LIFL | rhodochrosite | 10 |
|  | Fe | Kα | LIFL | siderite | 10 |
|  | Sr | Lα | TAP | celestine | 100 |
|  | Y | Lα | TAP | xenotime | 120 |
|  | Ba | Lα | PETH | baryte | 60 |
|  | La | Lα | LIFL | monazite | 40 |
|  | Ce | Lα | LIFL | monazite | 40 |
|  | Pr | Lβ | LIFH | REE glass | 170 |
|  | Nd | Lα | LIFL | monazite | 40 |
|  | Sm | Lα | LIFH | REE glass | 40 |
|  | Gd | Lα | LIFH | REE glass | 60 |
|  | Tb | Lα | LIFH | REE glass | 60 |
|  | Dy | Lβ | LIFL | REE glass | 160 |
|  | Yb | Lα | LIFL | REE glass | 100 |
|  | Pb | Mα | PETH | vanadinite | 60 |
|  | Th | Mα | PETH | monazite | 120 |
|  | U | Mα | PETH | metal | 120 |
|  |  |  |  |  |  |
|  | counting times on each background were half the on-peak time | | | | |
|  | for analysis of cordylite | | |  |  |