Table 2. Final position, occupancy, and displacement parameters for phengite-2\(M_1\) in \(C2/c\).

<table>
<thead>
<tr>
<th>Atom</th>
<th>(x/a)</th>
<th>(y/b)</th>
<th>(z/c)</th>
<th>occ.</th>
<th>(U_{11})</th>
<th>(U_{22})</th>
<th>(U_{33})</th>
<th>(U_{12})</th>
<th>(U_{13})</th>
<th>(U_{23})</th>
<th>(U_{eq})</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
<td>0.00</td>
<td>0.0936(2)*</td>
<td>0.25</td>
<td>0.964(8)</td>
<td>0.0303(9)</td>
<td>0.0271(9)</td>
<td>0.037(1)</td>
<td>0.00</td>
<td>0.0027(7)</td>
<td>0/00</td>
<td>0.0314(5)</td>
</tr>
<tr>
<td>M2 (Al)</td>
<td>0.2463(3)</td>
<td>0.08152(14)</td>
<td>0.00008(7)</td>
<td>0.972(7)</td>
<td>0.0167(6)</td>
<td>0.0116(6)</td>
<td>0.0146(7)</td>
<td>0.0002(4)</td>
<td>0.0004(5)</td>
<td>0.0005(3)</td>
<td>0.0144(4)</td>
</tr>
<tr>
<td>T1 (Si)</td>
<td>0.4619(2)</td>
<td>0.92804(12)</td>
<td>0.13519(6)</td>
<td>1.0</td>
<td>0.0151(5)</td>
<td>0.0093(5)</td>
<td>0.0160(5)</td>
<td>-0.0003(4)</td>
<td>0.0009(4)</td>
<td>0.0002(4)</td>
<td>0.0135(3)</td>
</tr>
<tr>
<td>T2 (Si)</td>
<td>0.4524(2)</td>
<td>0.25805(12)</td>
<td>0.13522(6)</td>
<td>1.0</td>
<td>0.0145(5)</td>
<td>0.0121(5)</td>
<td>0.0153(6)</td>
<td>-0.0003(5)</td>
<td>0.0009(4)</td>
<td>0.0002(4)</td>
<td>0.0140(3)</td>
</tr>
<tr>
<td>O1</td>
<td>0.4601(7)</td>
<td>0.0931(3)</td>
<td>0.16892(15)</td>
<td>1.0</td>
<td>0.0235(16)</td>
<td>0.0124(13)</td>
<td>0.0201(15)</td>
<td>-0.0005(13)</td>
<td>0.0017(12)</td>
<td>0.0009(11)</td>
<td>0.0187(9)</td>
</tr>
<tr>
<td>O2</td>
<td>0.2253(6)</td>
<td>0.8349(3)</td>
<td>0.16261(15)</td>
<td>1.0</td>
<td>0.0129(15)</td>
<td>0.0198(15)</td>
<td>0.0211(16)</td>
<td>-0.0038(12)</td>
<td>0.0021(12)</td>
<td>-0.0004(12)</td>
<td>0.0179(9)</td>
</tr>
<tr>
<td>O3</td>
<td>0.2256(7)</td>
<td>0.3473(3)</td>
<td>0.16924(15)</td>
<td>1.0</td>
<td>0.0209(16)</td>
<td>0.0200(15)</td>
<td>0.0167(15)</td>
<td>0.0046(13)</td>
<td>0.0007(13)</td>
<td>-0.0011(12)</td>
<td>0.0193(9)</td>
</tr>
<tr>
<td>O4</td>
<td>0.4530(6)</td>
<td>0.9349(4)</td>
<td>0.05491(15)</td>
<td>1.0</td>
<td>0.0183(15)</td>
<td>0.0198(15)</td>
<td>0.00166(14)</td>
<td>-0.0020(13)</td>
<td>0.0019(12)</td>
<td>0.0002(11)</td>
<td>0.0182(9)</td>
</tr>
<tr>
<td>O5</td>
<td>0.4016(6)</td>
<td>0.2513(4)</td>
<td>0.05458(15)</td>
<td>1.0</td>
<td>0.0184(15)</td>
<td>0.0186(14)</td>
<td>0.0152(14)</td>
<td>-0.0003(13)</td>
<td>-0.0015(12)</td>
<td>0.0020(11)</td>
<td>0.0176(8)</td>
</tr>
<tr>
<td>O6</td>
<td>0.4555(8)</td>
<td>0.5661(4)</td>
<td>0.05460(17)</td>
<td>1.0</td>
<td>0.0354(20)</td>
<td>0.0205(17)</td>
<td>0.0228(17)</td>
<td>0.0067(16)</td>
<td>0.0043(15)</td>
<td>-0.0013(13)</td>
<td>0.0261(11)</td>
</tr>
<tr>
<td>H</td>
<td>0.395(12)</td>
<td>0.634(6)</td>
<td>0.058(2)</td>
<td>1.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.023(3)</td>
</tr>
</tbody>
</table>

* Numbers in parentheses are one standard deviation (1σ) in last significant digit given.
Table 3. Final position, occupancy, and displacement parameters for phengite-3$T$ in $P3_112$.  

<table>
<thead>
<tr>
<th>Atom</th>
<th>$x/a$</th>
<th>$y/b$</th>
<th>$z/c$</th>
<th>occ.</th>
<th>$U_{11}$</th>
<th>$U_{22}$</th>
<th>$U_{33}$</th>
<th>$U_{12}$</th>
<th>$U_{13}$</th>
<th>$U_{23}$</th>
<th>$U_{eq}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
<td>0.1239(5)*</td>
<td>0.2477(5)</td>
<td>0.16667</td>
<td>1.001(15)</td>
<td>0.0280(13)</td>
<td>0.038(2)</td>
<td>0.0413(17)</td>
<td>0.0191(12)</td>
<td>-0.0018(19)</td>
<td>0.000</td>
<td>0.0347(15)</td>
</tr>
<tr>
<td>M2 (Al)</td>
<td>-0.1975(4)</td>
<td>-0.0987(4)</td>
<td>0.0</td>
<td>0.98(2)</td>
<td>0.0122(14)</td>
<td>0.0128(18)</td>
<td>0.0061(7)</td>
<td>0.000</td>
<td>-0.0006(19)</td>
<td>0.0124(11)</td>
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</tr>
<tr>
<td>M3 (Al)</td>
<td>0.4550(5)</td>
<td>0.2272(5)</td>
<td>0.0</td>
<td>1.00(2)</td>
<td>0.015(3)</td>
<td>0.0131(16)</td>
<td>0.025(2)</td>
<td>0.0075(13)</td>
<td>0.0001(2)</td>
<td>0.0175(17)</td>
<td></td>
</tr>
<tr>
<td>T1 (Si)</td>
<td>0.7900(7)</td>
<td>0.5815(7)</td>
<td>0.0903(1)</td>
<td>1.00</td>
<td>0.0182(19)</td>
<td>0.0219(19)</td>
<td>0.0069(15)</td>
<td>0.0106(16)</td>
<td>-0.0012(12)</td>
<td>0.0005(15)</td>
<td>0.0159(15)</td>
</tr>
<tr>
<td>T2 (Si)</td>
<td>0.4714(6)</td>
<td>0.9221(5)</td>
<td>0.0900(1)</td>
<td>1.00</td>
<td>0.0014(9)</td>
<td>0.0014(9)</td>
<td>0.029(2)</td>
<td>-0.0011(10)</td>
<td>-0.0011(11)</td>
<td>-0.0009(12)</td>
<td>0.0115(11)</td>
</tr>
<tr>
<td>O1</td>
<td>0.7564(19)</td>
<td>0.5698(16)</td>
<td>0.0361(3)</td>
<td>1.00</td>
<td>0.008(3)</td>
<td>0.008(3)</td>
<td>0.022(5)</td>
<td>-0.004(3)</td>
<td>0.001(4)</td>
<td>0.001(3)</td>
<td>0.016(3)</td>
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<tr>
<td>O2</td>
<td>0.4973(18)</td>
<td>0.9267(17)</td>
<td>0.0367(3)</td>
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<td>0.018(4)</td>
<td>0.011(4)</td>
<td>0.018(5)</td>
<td>-0.001(3)</td>
<td>-0.000(3)</td>
<td>0.005(3)</td>
<td>0.019(4)</td>
</tr>
<tr>
<td>O3</td>
<td>0.6411(16)</td>
<td>0.7568(19)</td>
<td>0.1129(3)</td>
<td>1.00</td>
<td>0.016(4)</td>
<td>0.028(5)</td>
<td>0.026(4)</td>
<td>0.016(3)</td>
<td>-0.002(3)</td>
<td>-0.003(3)</td>
<td>0.021(3)</td>
</tr>
<tr>
<td>O4</td>
<td>0.1273(19)</td>
<td>0.7350(15)</td>
<td>0.1092(2)</td>
<td>1.00</td>
<td>0.015(2)</td>
<td>0.015(2)</td>
<td>0.021(3)</td>
<td>-0.011(3)</td>
<td>0.001(4)</td>
<td>0.001(3)</td>
<td>0.017(2)</td>
</tr>
<tr>
<td>O5</td>
<td>0.616(2)</td>
<td>0.252(2)</td>
<td>0.1124(3)</td>
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<td>0.042(6)</td>
<td>0.030(3)</td>
<td>0.021(4)</td>
<td>0.032(4)</td>
<td>-0.002(4)</td>
<td>-0.001(5)</td>
<td>0.025(3)</td>
</tr>
<tr>
<td>O6</td>
<td>0.133(2)</td>
<td>0.198(2)</td>
<td>0.0363(3)</td>
<td>1.00</td>
<td>0.032(4)</td>
<td>0.029(5)</td>
<td>0.023(3)</td>
<td>0.022(4)</td>
<td>-0.002(4)</td>
<td>-0.003(4)</td>
<td>0.024(4)</td>
</tr>
<tr>
<td>H</td>
<td>0.076(34)</td>
<td>0.280(31)</td>
<td>0.039(4)</td>
<td>1.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.03</td>
</tr>
</tbody>
</table>

* Numbers in parentheses are one standard deviation ($1\sigma$) in last significant digit given.