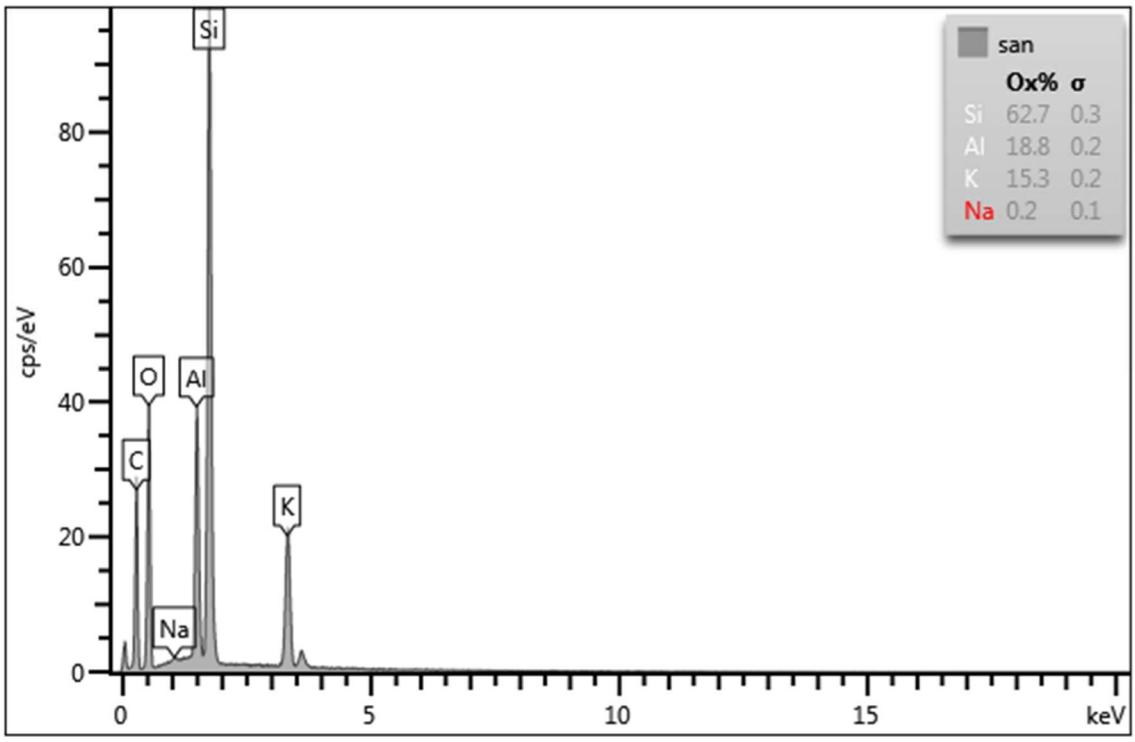
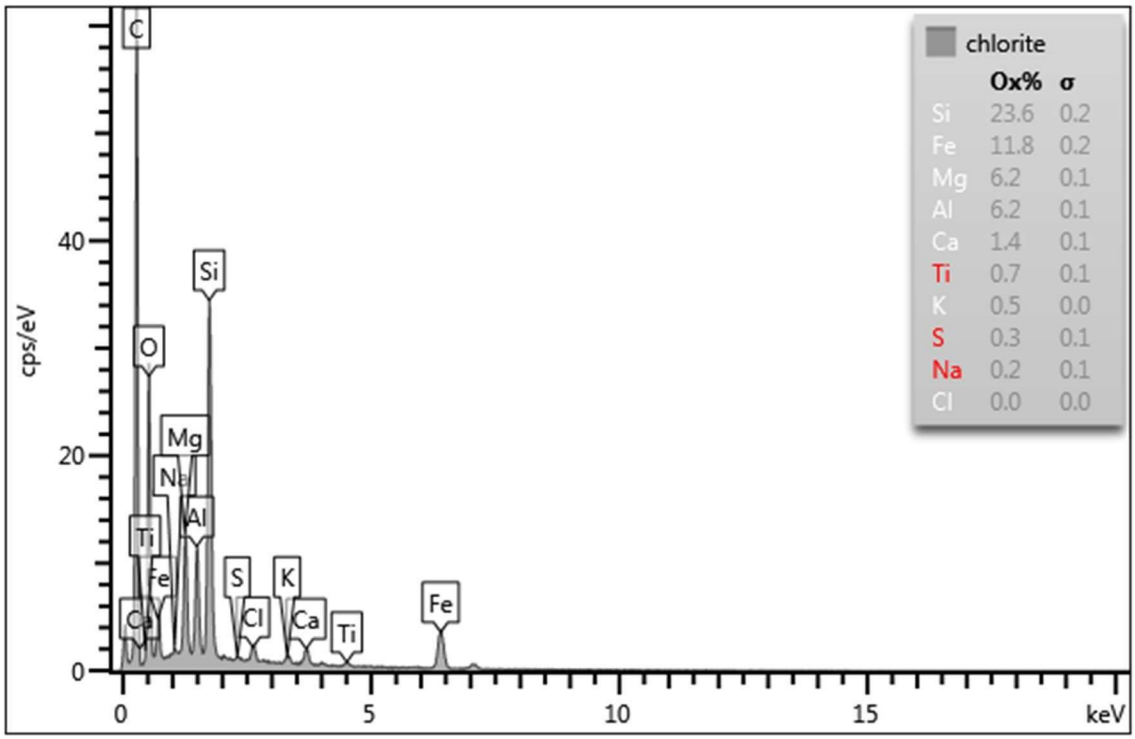
Figure S2. EDS spectra and semi-quantitative composition of mineral phases in rock cores from the San Vito 1 well in the Campi Flegrei geothermal system.

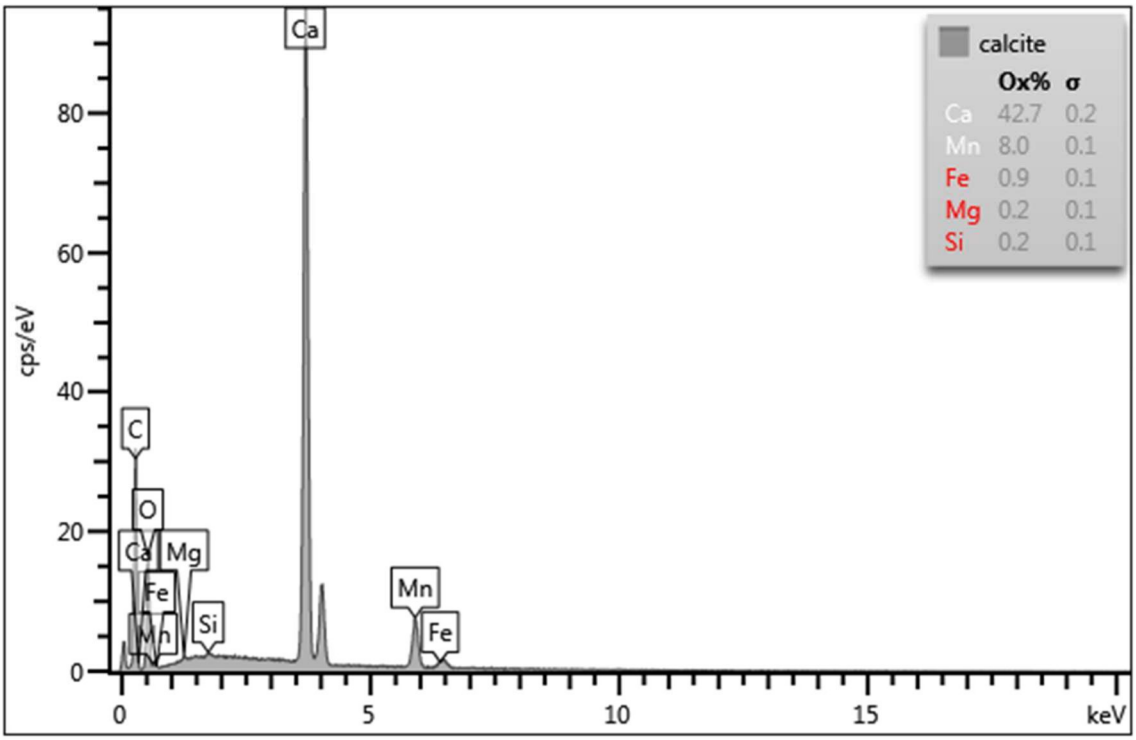
Sample cored at 804. m.



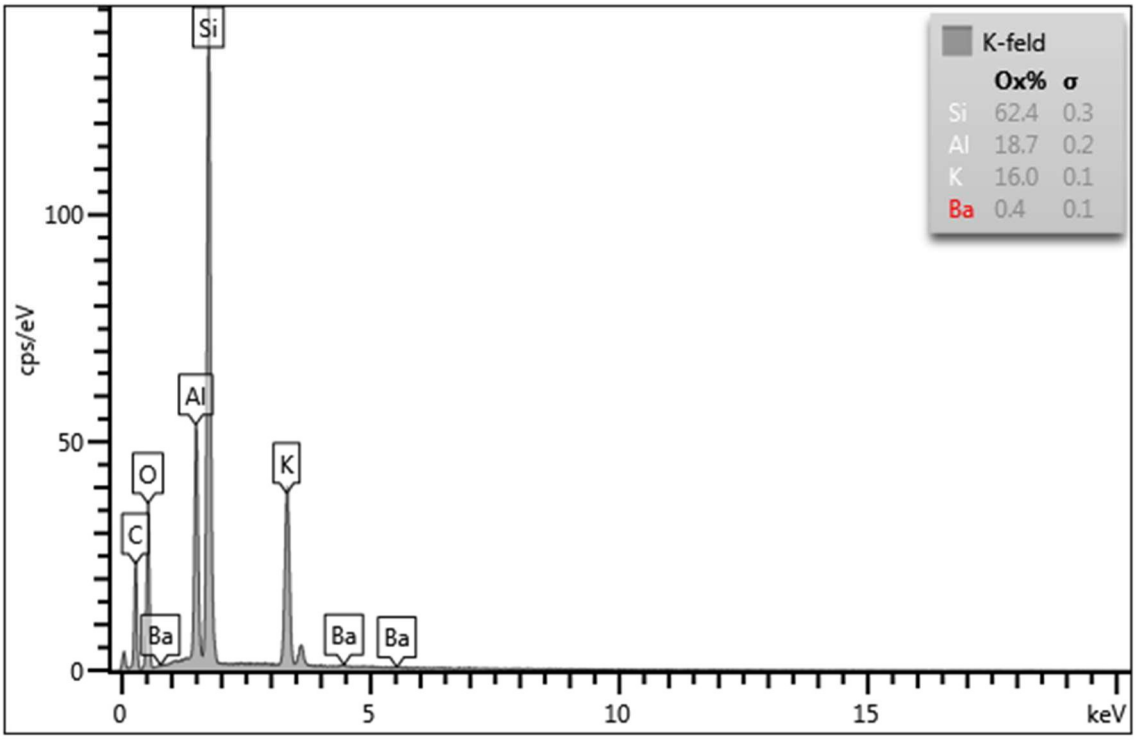
(a) Energy dispersive spectrum of a K-feldspar in sample cored at 804 m shown in Figure 5a.



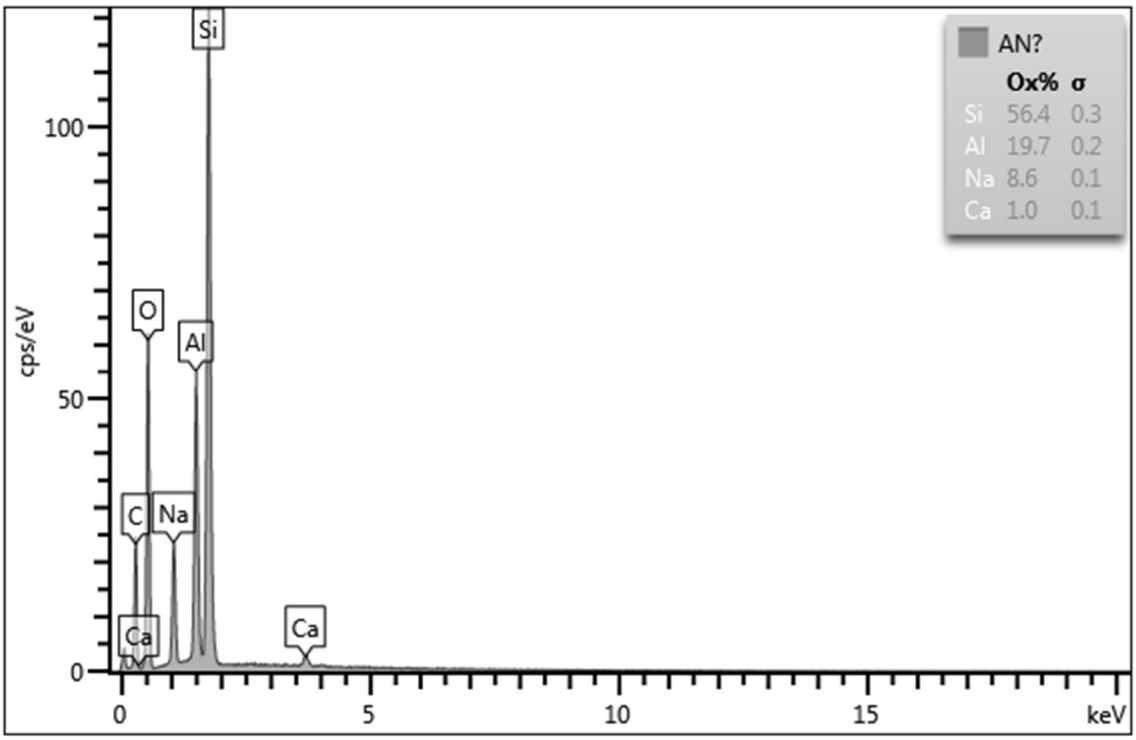
(b) Energy dispersive spectrum of the interlayered clays with chlorite-type nature in sample cored at 804 m shown in Figure 5a.



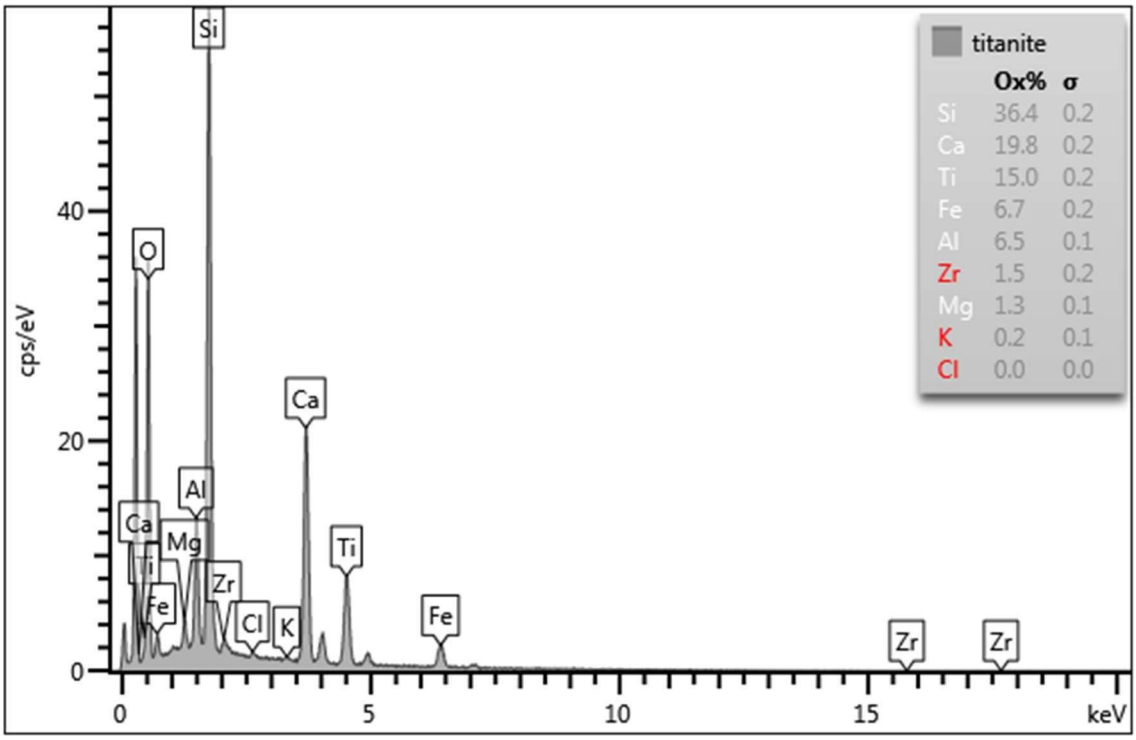
(c) Energy dispersive spectrum of a calcite in sample cored at 804 m shown in Figure 6a.



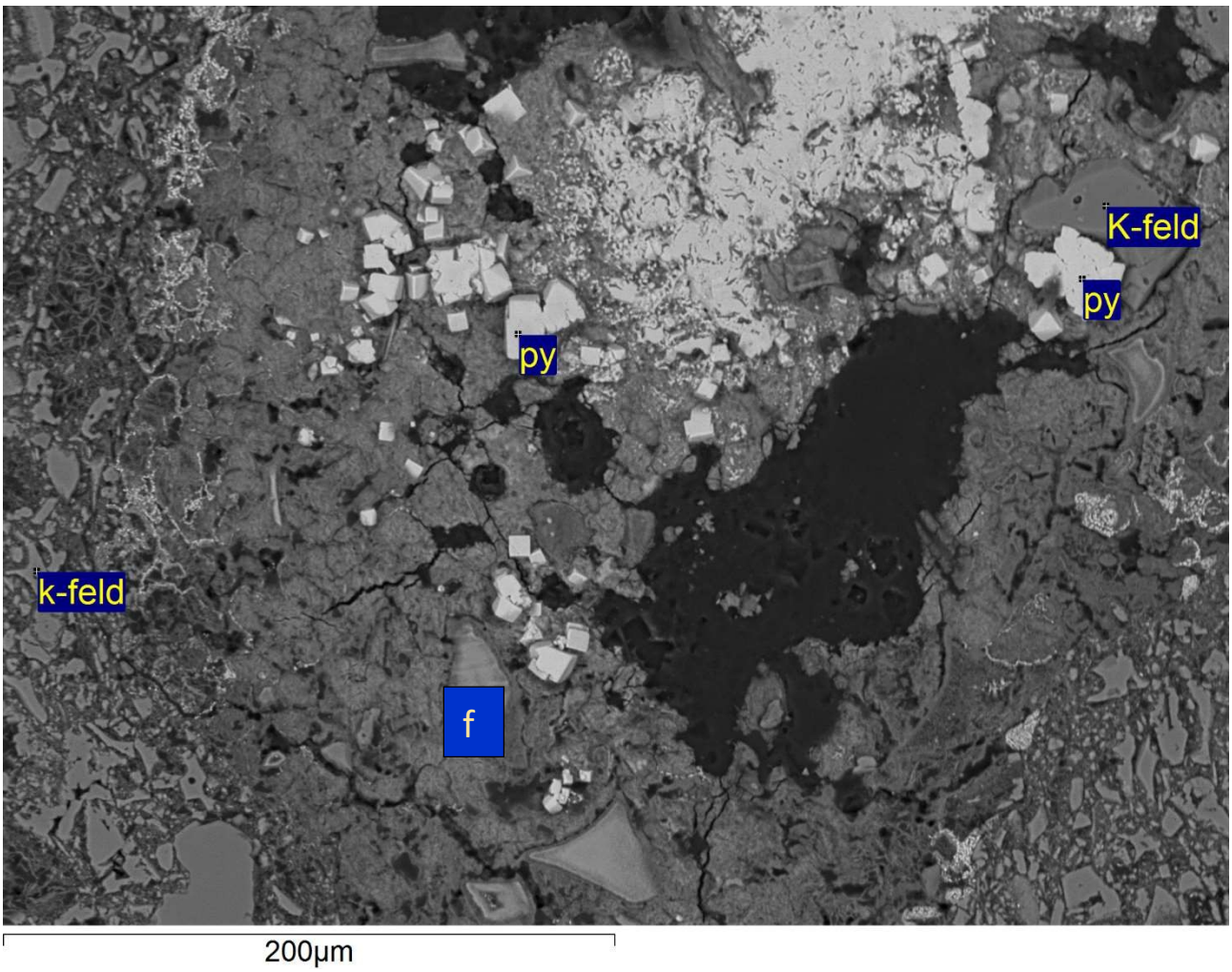
(d) Energy dispersive spectrum of a K-feldspar with Ba in sample cored at 804 m shown in Figure 6a.



(e) Energy dispersive spectrum of an analcime in sample cored at 804 m shown in Figure 6a.

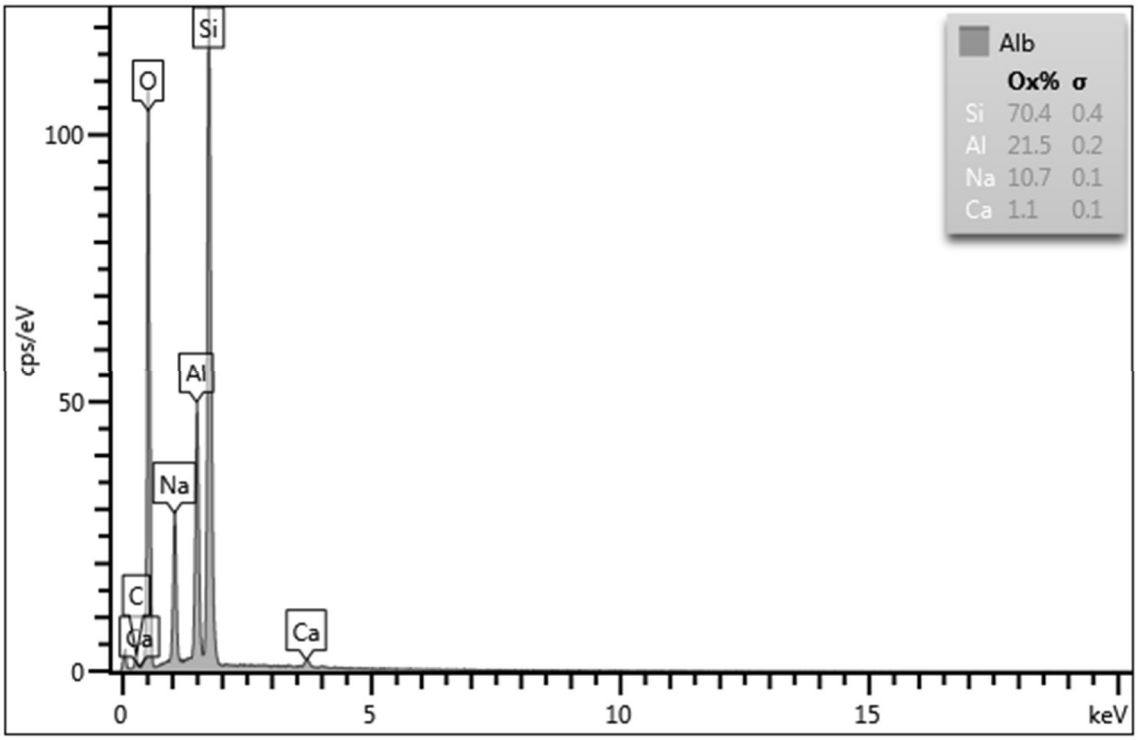


(f) Energy dispersive spectrum of a titanite in sample cored at 804 m shown in Figure 6b.

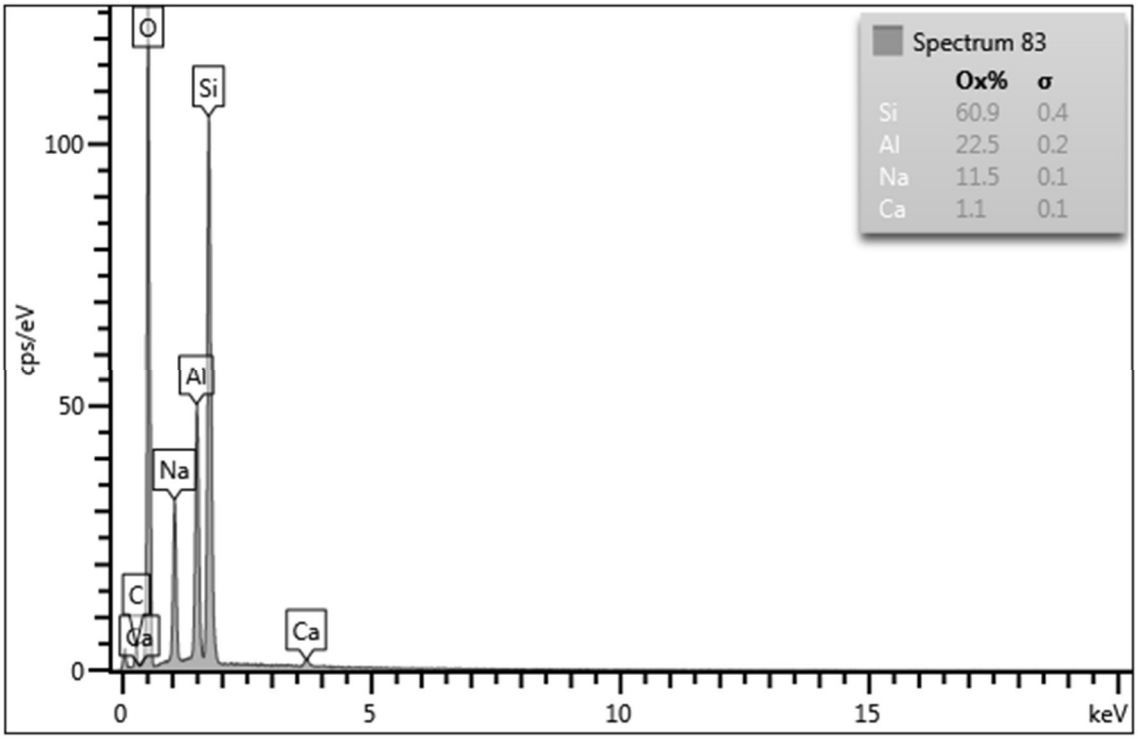


(g) Back scattered electron image of sample cored at 804 m showing a void fracture with cubic pyrites. K-feld, k-feldspar; py, pyrite; f, fossil.

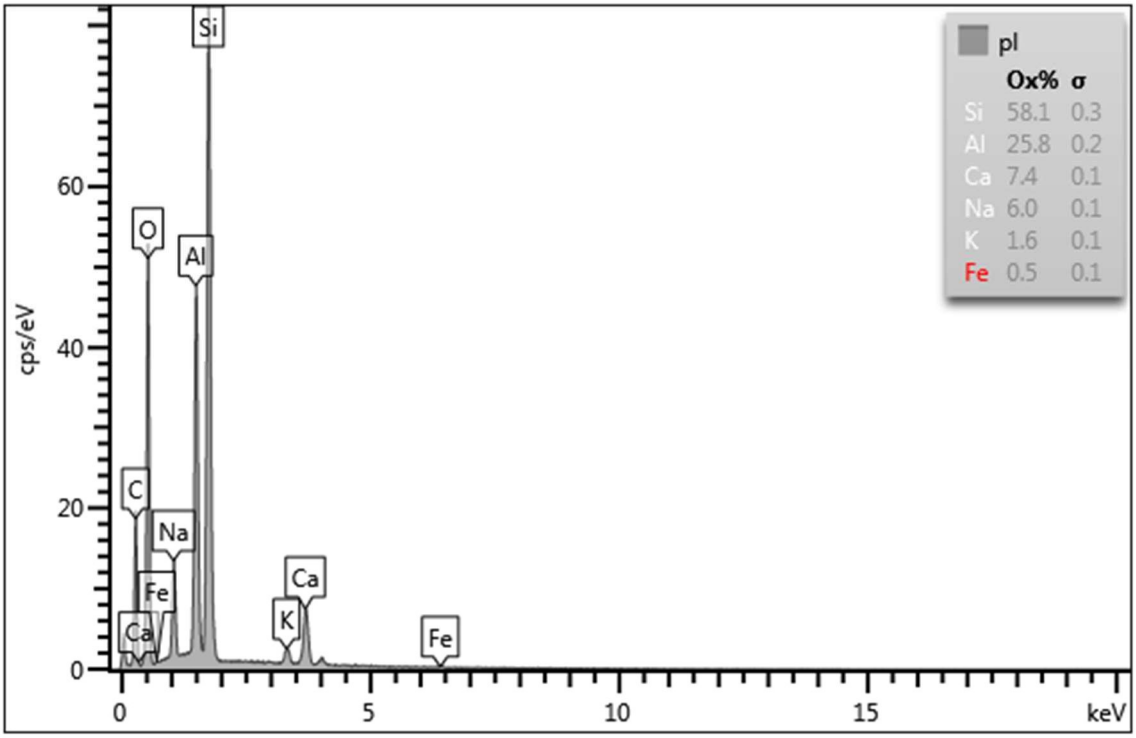
Sample cored at 1412 m



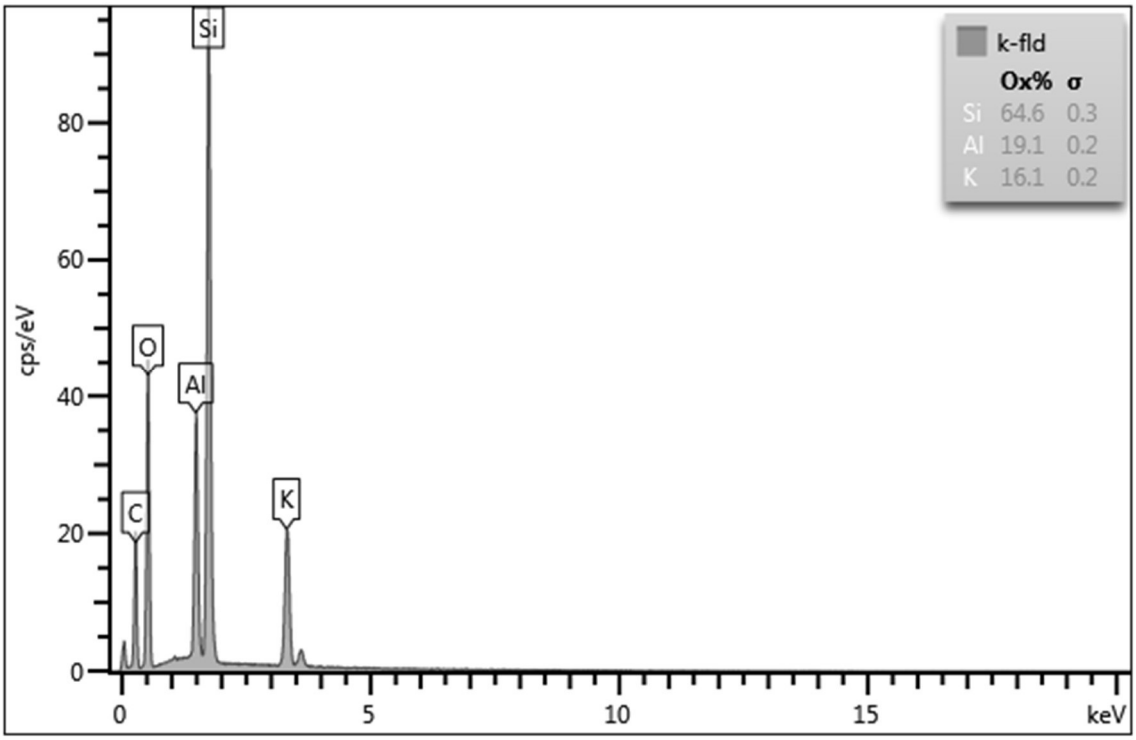
(h) Energy dispersive spectrum of an albite plagioclase in sample cored at 1412 m shown in Figure 5c.



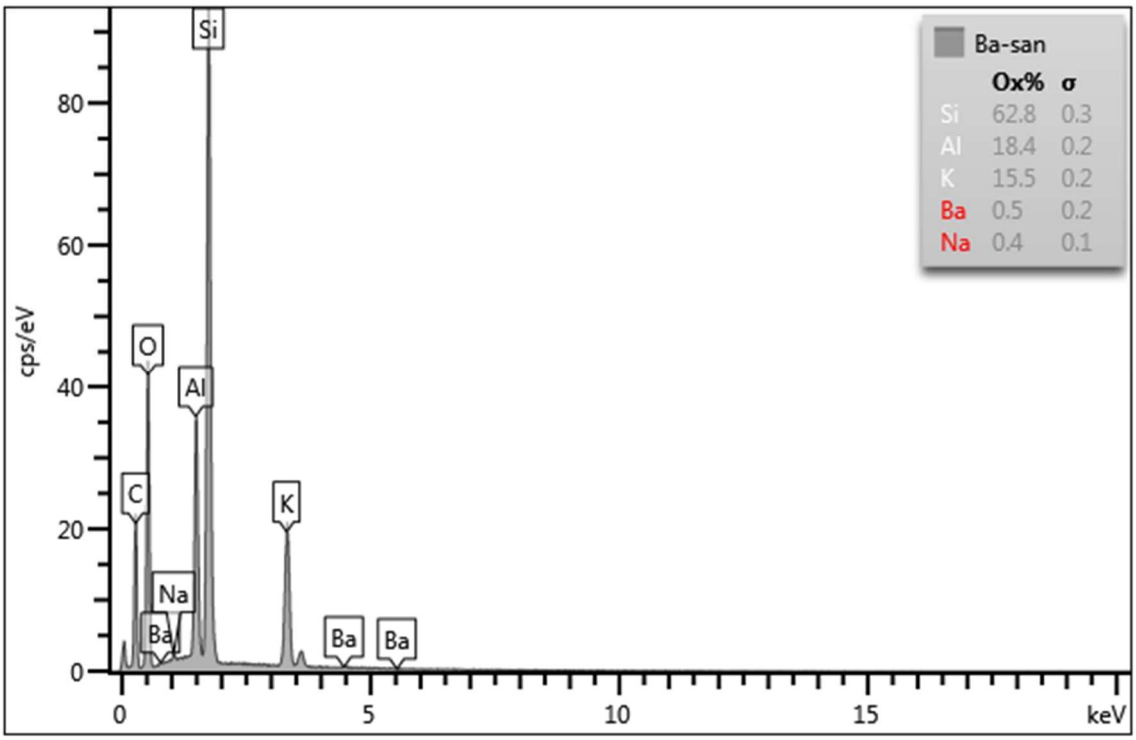
(i) Energy dispersive spectrum of an albite plagioclase in sample cored at 1412 m shown in Figure 5d.



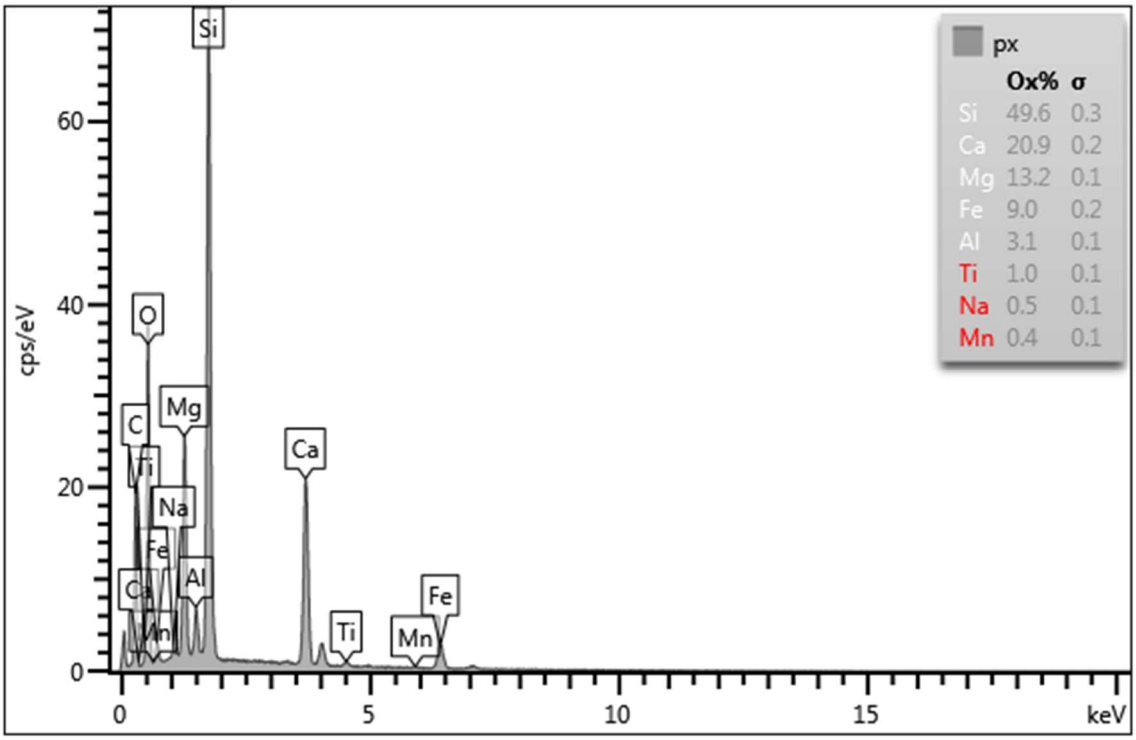
(j) Energy dispersive spectrum of an andesine plagioclase in sample cored at 1412 m shown in Figure 6e.



(k) Energy dispersive spectrum of a K-feldspar in sample cored at 1412 m shown in Figure 6e.

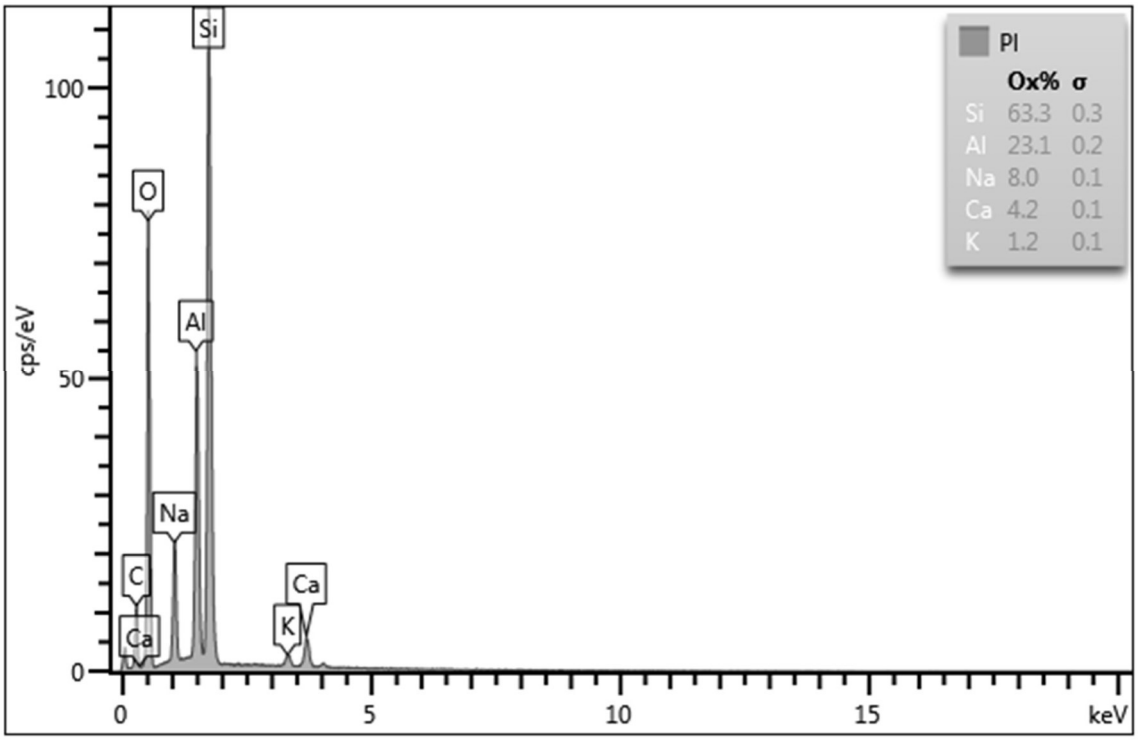


(l) Energy dispersive spectrum of a K-feldspar with Ba in sample cored at 1412 m shown in Figure 6e.

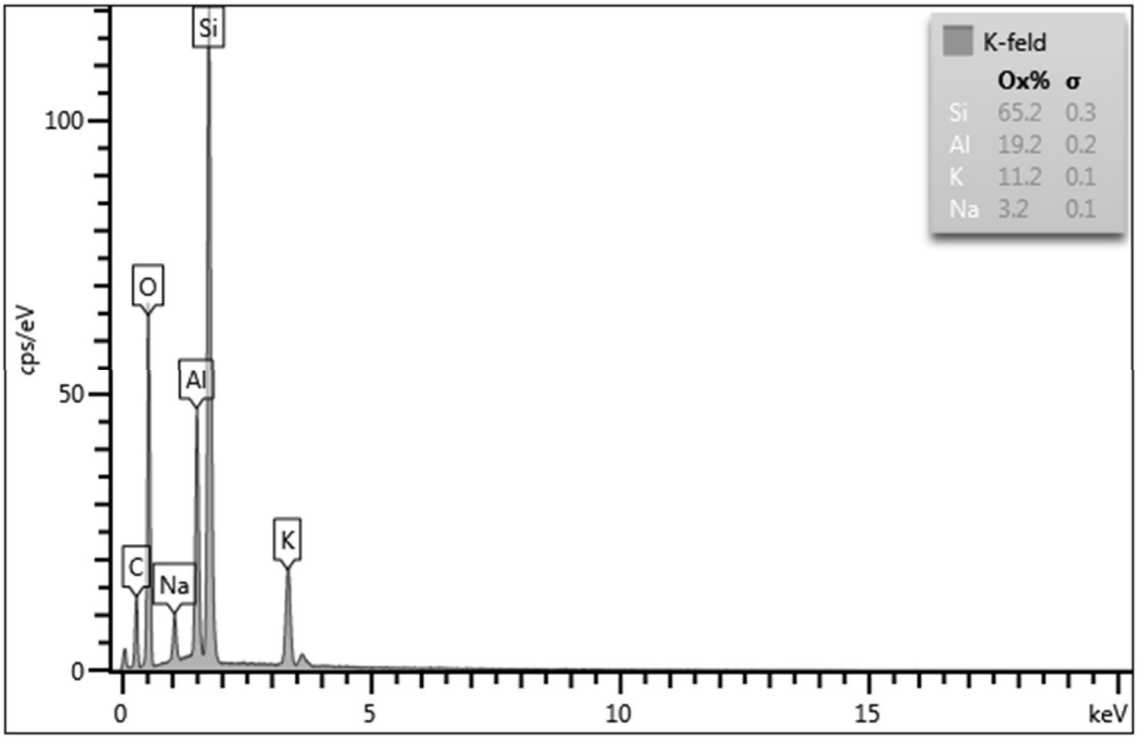


(m) Energy dispersive spectrum of a pyroxene in sample cored at 1412 m shown in Figure 6f.

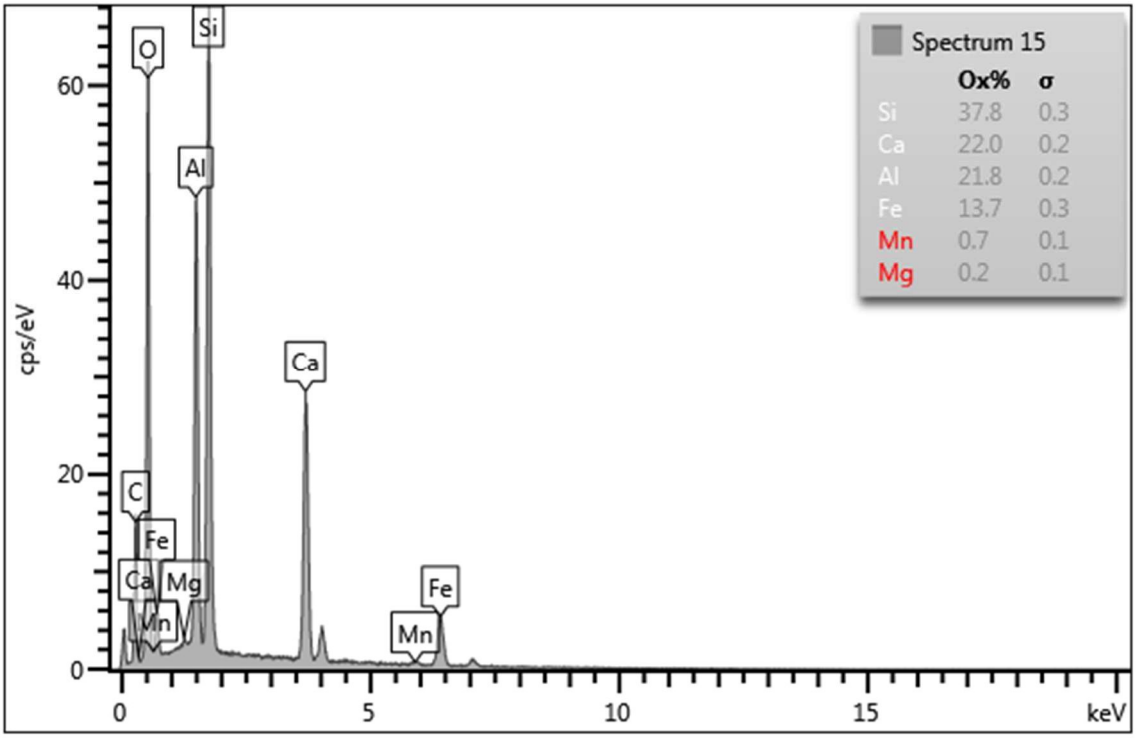
Sample cored at 1713 m



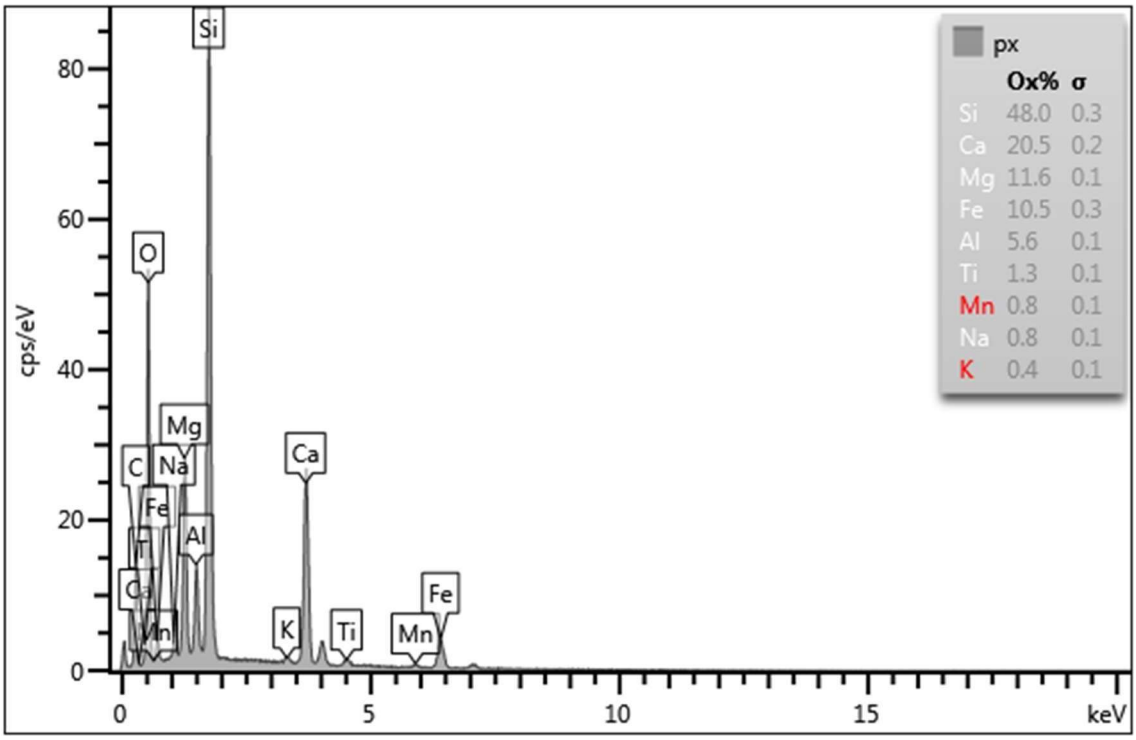
(n) Energy dispersive spectrum of an andesine plagioclase in sample cored at 1713 m shown in Figure 5e.



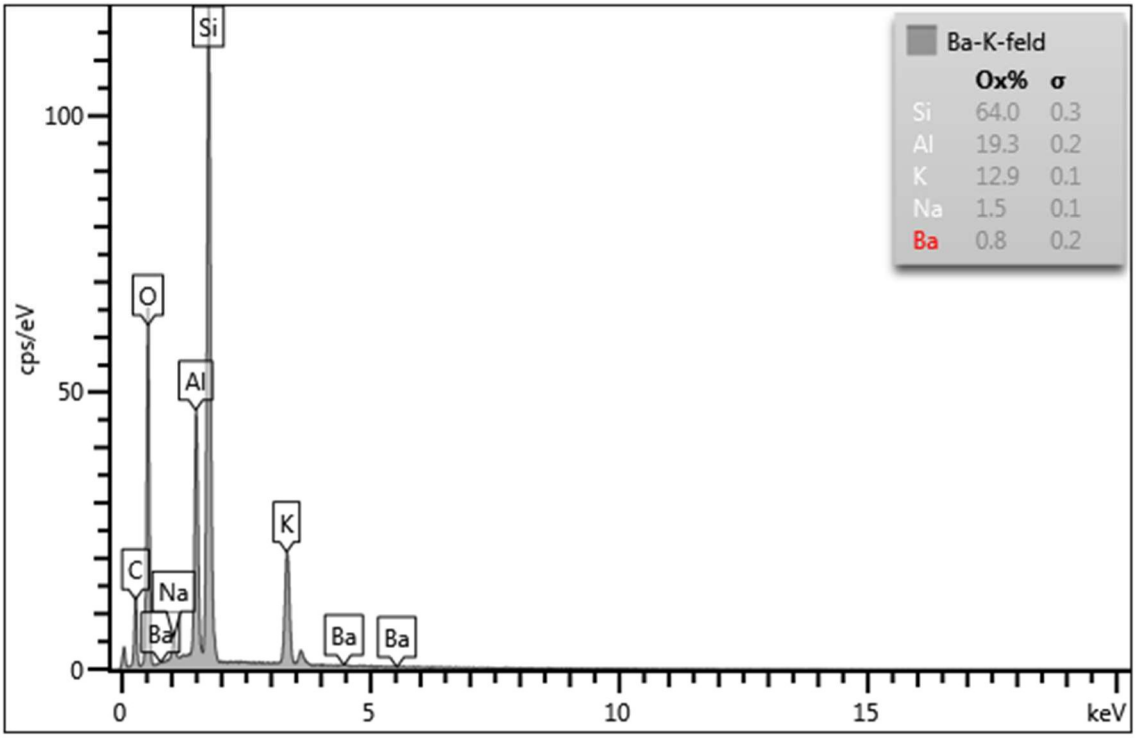
(o) Energy dispersive spectrum of a K-feldspar in sample cored at 1713 m shown in Figure 5e.



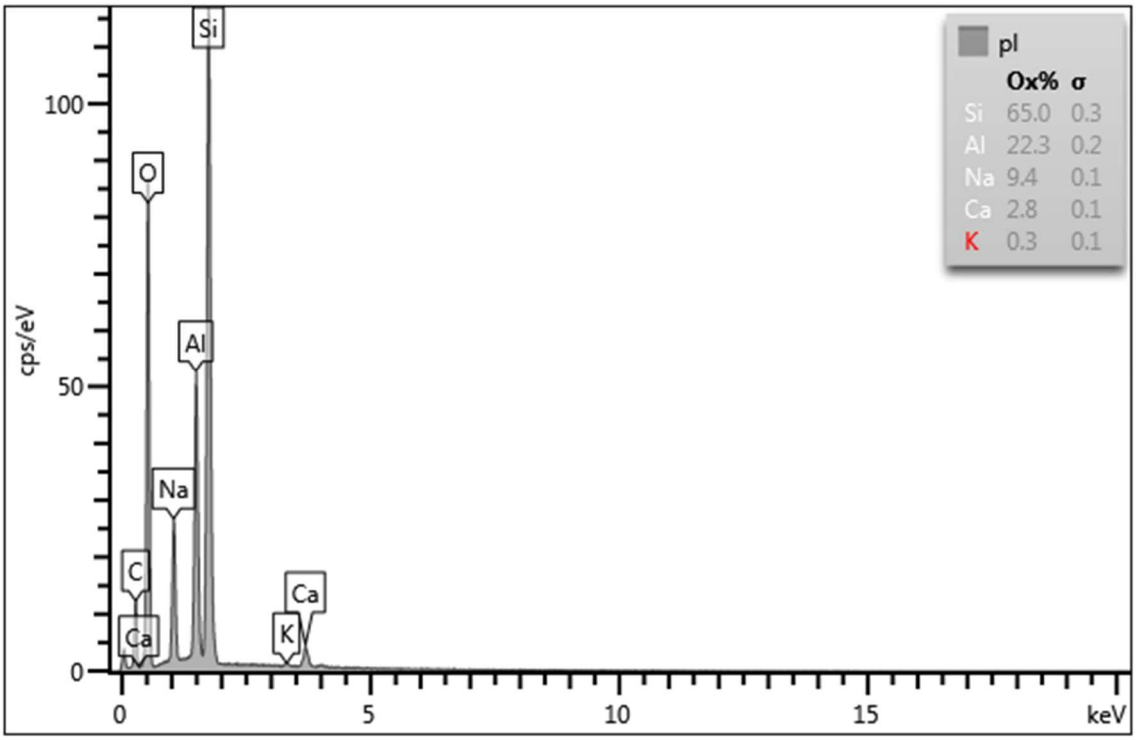
(p) Energy dispersive spectrum of a titanite in sample cored at 1713 m shown in Figure 5e.



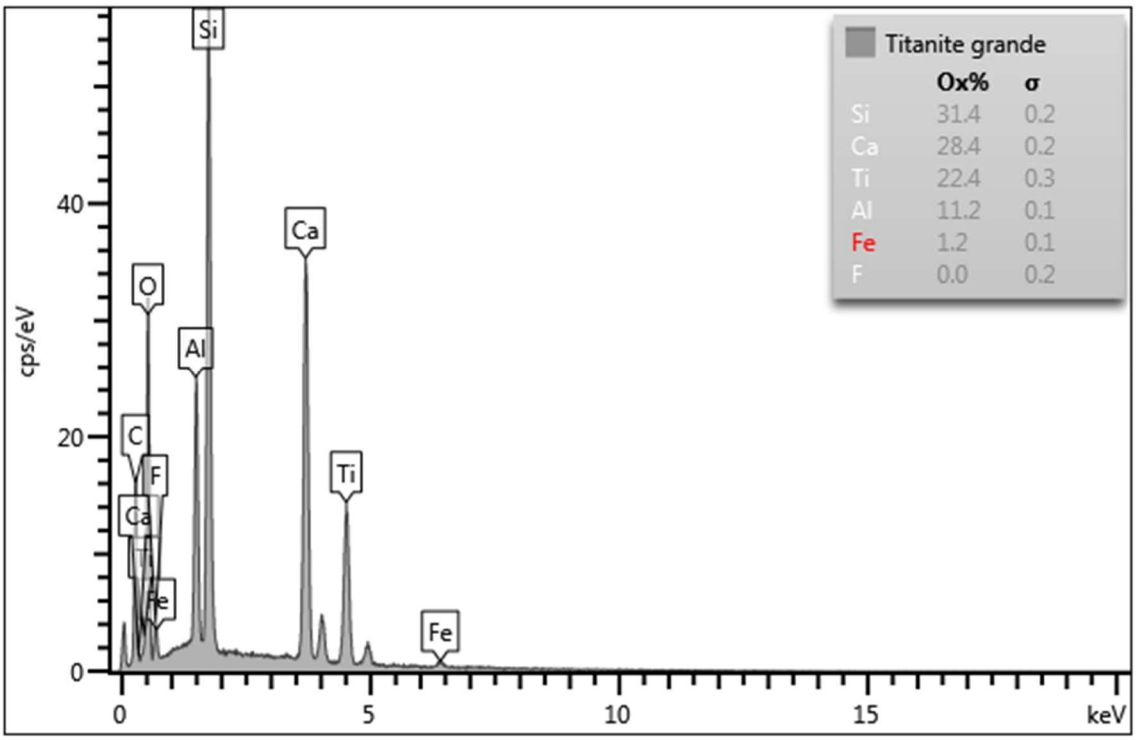
(q) Energy dispersive spectrum of a pyroxene in sample cored at 1713 m shown in Figure 6i.



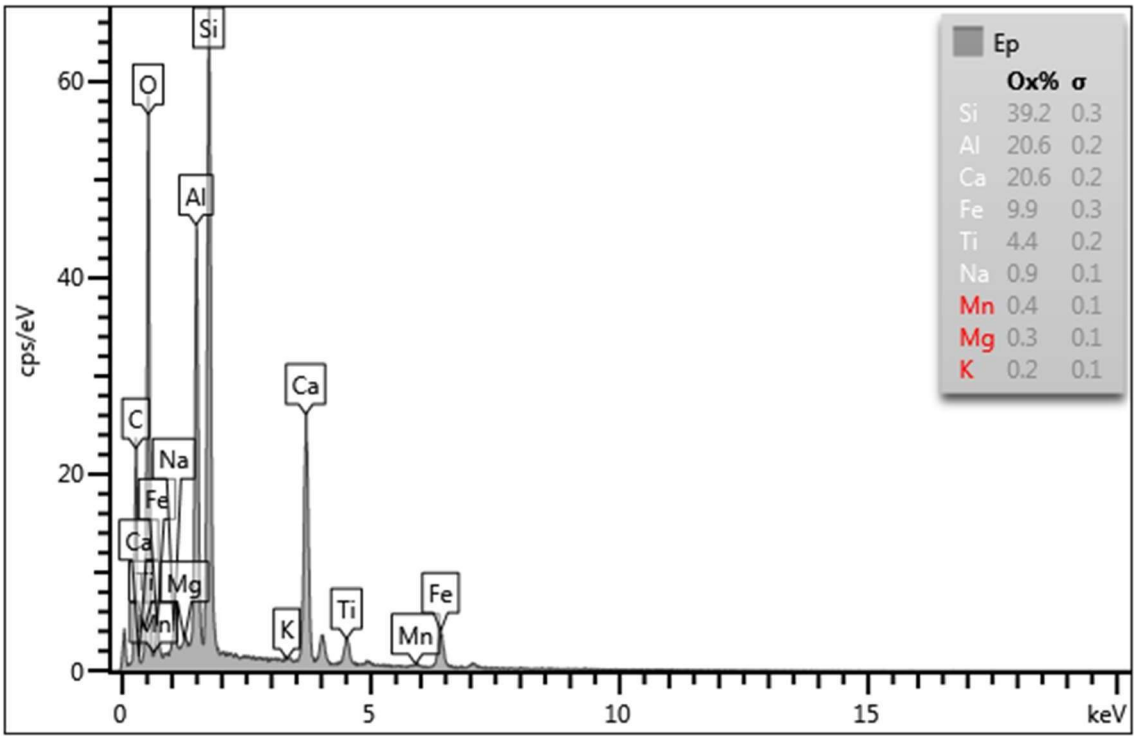
(r) Energy dispersive spectrum of a K-feldspar with Ba in sample cored at 1713 m shown in Figure 6i.



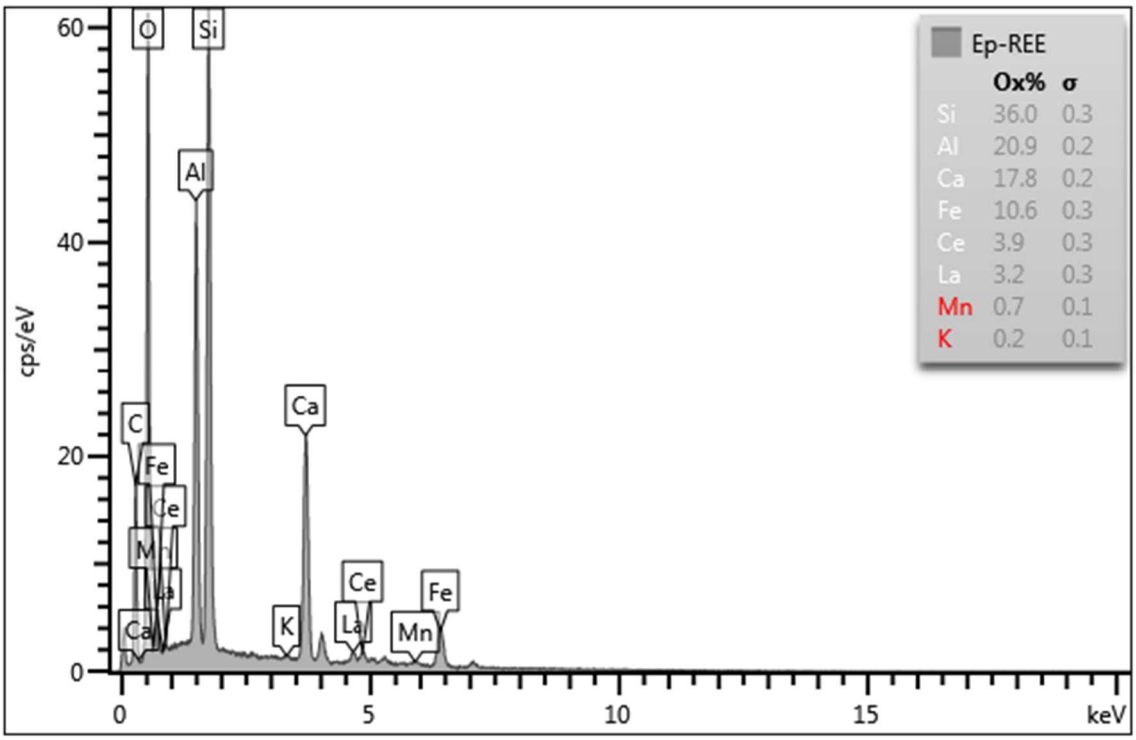
(s) Energy dispersive spectrum of a oligoclase plagioclase in sample cored at 1713 m shown in Figure 6i.



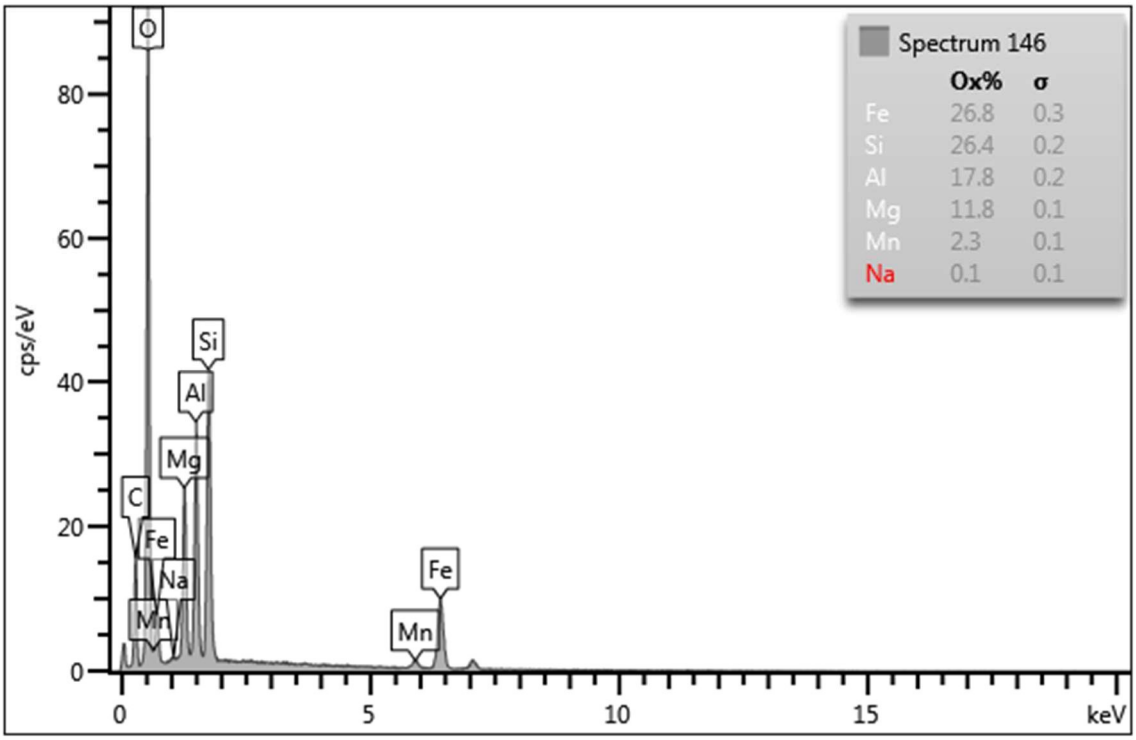
(t) Energy dispersive spectrum of a titanite in sample cored at 1713 m not shown in Figure.



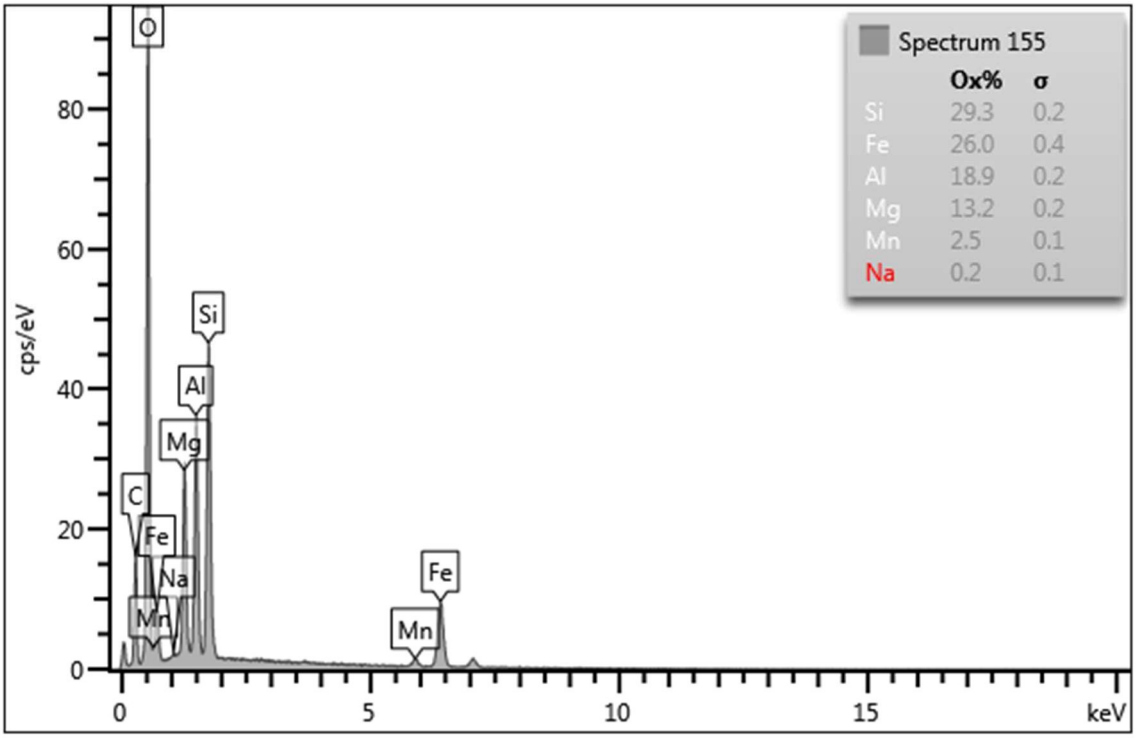
(u) Energy dispersive spectrum of an epidote in sample cored at 1713 m shown in Figure 6l.



(v) Energy dispersive spectrum of a REE-bearing epidote in sample cored at 1713 m shown in Figure 6l.



(w) Energy dispersive spectrum of a chlorite in sample cored at 1713 m.



(x) Energy dispersive spectrum of a chlorite in sample cored at 1713 m.