

Supplementary Data for:
Zirconolite glass-ceramics for the immobilisation of chlorine
contaminated plutonium residues.

Stephanie M. Thornber^a, Lucy M. Mottram^a, Amber R. Mason^a, Paul
Thompson^{b,c}, Martin C. Stennett^a, and Neil C. Hyatt^{a,*}

^a*Immobilisation Science Laboratory, Department of Materials Science & Engineering, The University of Sheffield, Sir Robert Hadfield Building, Mappin Street, Sheffield S1 3JD, UK*

^b*XMaS, UK CRG, ESRF, 71 Avenue des Martyrs, 38043 Grenoble, France.*

^c*Department of Physics, University of Liverpool, Oliver Lodge Laboratory, Liverpool L69 7ZE, UK.*

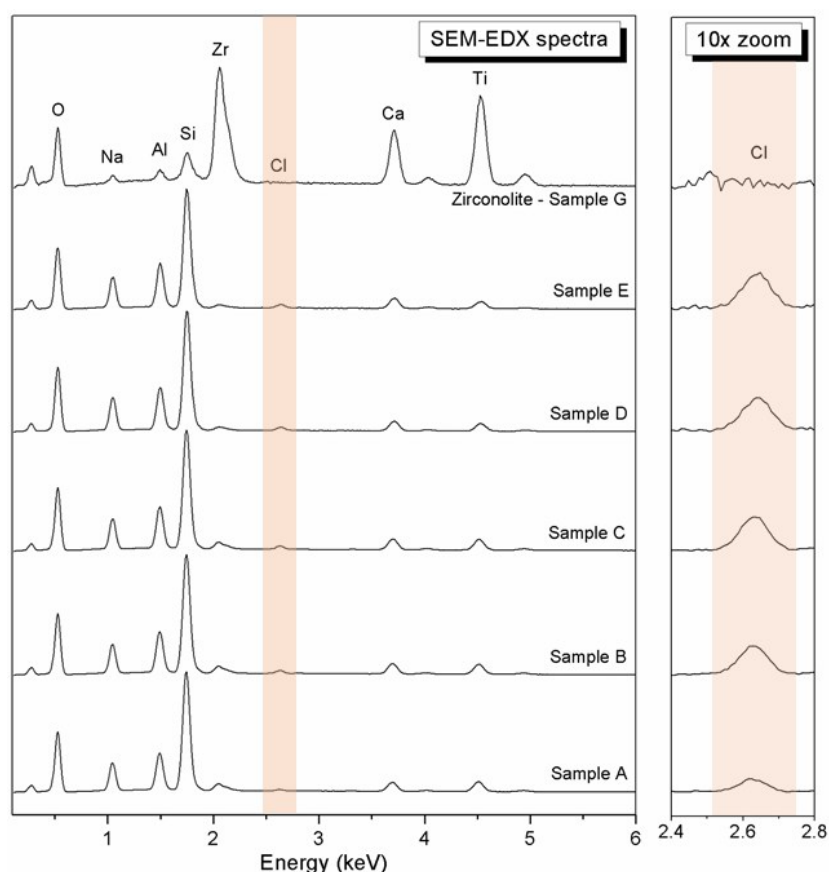


Figure S1: EDX spectra of the glass phase confirming retention and incorporation of Cl and absence of Cl in zirconolite phase.

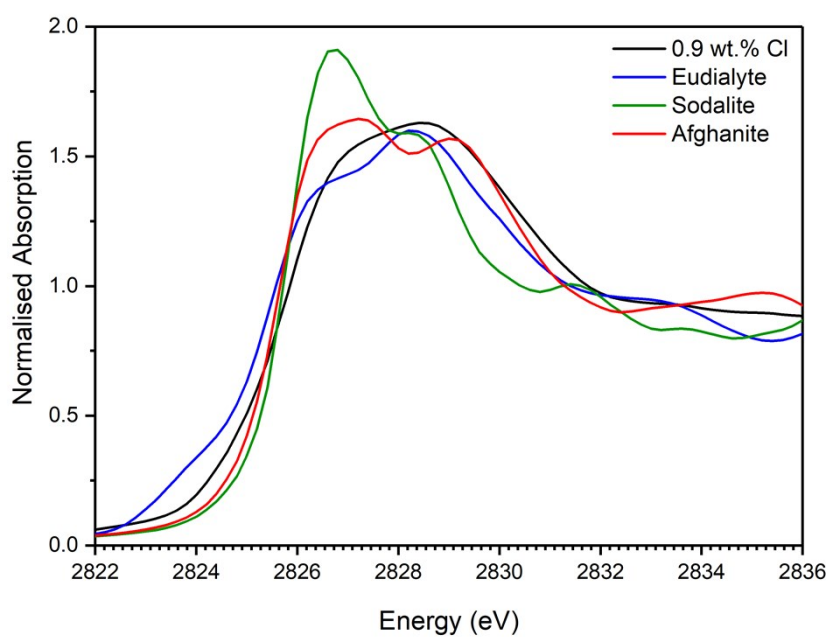


Figure S2: Comparison of Cl K-edge XANES data for glass-ceramic composition C (0.9 wt. % Cl) compared with the XANES data for aluminosilicate reference compounds eudialyte, sodalite and afghanite.