

Table S1. EDX point analyses on garnet standard.

Garnet standard 138											
Accepted values											
	Na₂O	MgO	Al₂O₃	SiO₂	K₂O	CaO	TiO₂	Cr₂O₃	MnO	FeO	NiO
	0.01	19.68	23.47	42.2	0.01	4.33	0.02	0.4	0.5	9.63	0.02
$\pm 2SD$ (<i>abs</i>)	0.02	0.34	0.39	0.33	0.02	0.26	0.04	0.12	0.12	0.42	0.04
EDX point measurements (Bruker Esprit)											
		19.55	23.06	40.9		4.78			0.34	11.38	
		19.8	23.46	40.88		4.9			0.39	10.56	
		19.96	23.12	41.2		5.06			0.51	10.15	
		20.25	23.39	41.29		4.86			0.47	9.9	
		19.42	23.30	41.40		4.36			0.58	10.93	
		19.90	23.44	41.15		4.81			0.38	10.34	
		19.87	23.65	41.24		5.26			0.43	9.55	
		20.21	23.32	41.12		4.50			0.42	10.44	
Mean		19.87	23.34	41.15		4.82			0.44	10.41	