

Supporting Information

**Rapid determination of local composition in quasi-binary,
inhomogeneous material systems from backscattered electron
image contrast**

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Spectrum Label	Spectrum 1022	Spectrum 1023	Spectrum 1024 (8)	Spectrum 1025 (9)	Spectrum 1026 (10)	Spectrum 1027	Spectrum 1028
Mg	66.34	66.67	66.60	66.49	66.71	65.51	66.22
Si	14.67	13.38	33.17	27.56	32.49	23.34	14.39
Sn	18.46	19.40	0.22	5.69	0.75	10.64	18.84
Sb	0.53	0.55	0.01	0.27	0.05	0.51	0.54
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00

*Spectrum numbers in the parentheses are the same as those indicated in **Figure 1** and **Table 1**.