

Major element concentrations (wt%) of sulphide minerals analysed by Electron Microprobe and LA-ICP-MS. All LA-ICP-MS analyses for S are quantified relative to the pyrite reference material using Fe as the internal standard element and laser conditions listed in Table 1. Other elements quantified using the same analytical conditions and the STDGL2b2 in-house reference material with Fe as the internal standard element. Note, Sb not analysed with the 193-Ex laser.

Mineral	Electron Microprobe		Sulphur by LA-ICP-MS		
	Fe	S	UP213	193-Ex	UP193
Pyrite	46.3	53.7	53.5	53.5	53.5
Co-Pyrite	45.1	53.6	56.8	54.2	
Pyrrhotite	61.0	39.0	47.8	47.0	43.3
Sphalerite	6.8	33.3	37.5	33.0	
Pentlandite	29.6	33.4	43.1	35.7	
Chalcopyrite	29.9	35.1	47.5	45.8	
Bornite	11.1	26.2	34.8	34.6	29.8
Tetrahedrite	5.5	25.5	37.7	31.4	

Mineral	Electron Microprobe	LA-ICP-MS	
	Other elements	UP213	193-Ex
Co-Pyrite	1.50 (Co)	1.5 (Co)	1.7 (Co)
Sphalerite	59.1 (Zn)	96.8 (Zn)	88.1 (Zn)
Pentlandite	0.5 (Co), 35.6 (Ni)	0.5 (Co) 34.8 (Ni)	0.5 (Co) 34.7 (Ni)
Chalcopyrite	34.7 (Cu)	33.2 (Cu)	36.4 (Cu)
Bornite	63.3 (Cu)	60.4 (Cu)	63.7 (Cu)
Tetrahedrite	36.2 (Cu), 1.4 (Zn) 2.6 (Ag), 29.2 (Sb)	35.5 (Cu) 2.9 (Zn) 4.1 (Ag) 35.1 (Sb)	36.8 (Cu) 2.7 (Zn) 3.9 (Ag)