

SUPPLEMENTARY MATERIALS: EPMA METHODOGOLOY

Table S1. EPMA setup for analysis

Element and Line	Diffracting Crystal (Sp#)	Background type/fit	kV/nA/spot size(μm)	Peak Count Time	Bkgd Count Times (per pt)		# bkgd points acquired (Lo/Hi)	Standard	Average DL (99% CI) on sample (ppm)
					Lo	Hi			
S Ka	LPET (1)	Multipoint	20/20/0	15	10	10	2/2	566	120
Bi Ma	LPET (1)	Multipoint	20/20/0	15	10	10	2/2	1400	640
Pb Ma	LPET (1)	Multipoint	20/20/0	15	10	10	2/2	566	660
Se La	TAP (2)	Multipoint	20/20/0	30	15	15	1/2	568	370
Te La	LPET (4)	Multipoint	20/20/0	30	15	15	0/3	1400	350
Sb La	LPET (4)	Multipoint	20/20/0	30	15	15	1/3	544	370

* Standard # refers to internal database. Full list of standards in Table S3

Table S2. Standard information

Reference #	Mineral composition	Natural/Synthetic	Manufacturer
544	Stibnite	Natural	Astimex
566	Galena	Natural	P&H and Associates
568	Bismuth Selenide	Synthetic	P&H and Associates
1400	Bismuth Telluride	Synthetic	P&H and Associates