

**APPENDIX 2**

Representative EPMA data for tetrahedrite group minerals (TGM): (a) I generation: low-Ag tetrahedrite-(Zn) [1-4]; (b) II generation: Ag-enriched tetrahedrite-(Zn) I [5-9] and Ag-enriched tetrahedrite-(Fe) I [10-14]; (c) III generation: member of series "freibergite-(Zn)" [15-19] and member of series "freibergite-(Fe)" [20-23]; (d) IV generation: member of series "freibergite-(Fe)" [24-27]

Analyses	wt.%										apfu $\Sigma$ 16 Cations									
	Ag	Cu	Zn	Fe	Hg	Sb	As	Bi	S	Total	Ag	Cu	Zn	Fe	Hg	Sb	As	Bi	S	
1	3.87	35.81	4.57	2.58	0.64	25.36	2.56	0.14	25.14	100.67	0.60	9.37	1.16	0.77	0.05	3.47	0.57	0.01	13.04	
2	2.31	37.18	4.78	2.59	0.35	21.50	5.20	0.16	25.59	99.65	0.35	9.61	1.20	0.76	0.03	2.90	1.14	0.01	13.11	
3	1.98	37.79	6.89	0.75	0.21	23.50	3.96	0.10	25.68	100.84	0.30	9.72	1.72	0.22	0.02	3.15	0.86	0.01	13.09	
4	1.45	38.95	6.44	1.37	0.22	17.05	8.17	0.14	26.10	99.88	0.22	9.80	1.58	0.39	0.02	2.24	1.74	0.01	13.02	
5	5.59	34.11	6.62	0.86	0.10	26.45	1.10	0.11	24.92	99.85	0.88	9.15	1.73	0.26	0.01	3.71	0.25	0.01	13.26	
6	6.00	33.87	6.59	0.93	0.03	26.38	1.40	0.09	24.94	100.23	0.94	9.05	1.71	0.28	0.00	3.68	0.32	0.01	13.21	
7	7.19	33.11	6.45	0.94	0.39	26.35	1.10	0.12	25.09	100.74	1.14	8.90	1.69	0.29	0.03	3.70	0.25	0.01	13.37	
8	6.49	33.83	6.22	0.99	0.51	26.58	1.22	0.12	25.06	101.03	1.02	9.03	1.61	0.30	0.04	3.70	0.28	0.01	13.26	
9	9.08	31.68	5.37	1.67	0.39	26.66	0.46	1.08	24.72	101.09	1.45	8.61	1.42	0.52	0.03	3.78	0.10	0.09	13.31	
10	6.26	34.70	3.81	3.37	0.22	23.08	3.52	0.37	25.16	100.48	0.97	9.08	0.97	1.00	0.02	3.15	0.78	0.03	13.05	
11	4.79	35.83	3.53	3.75	0.22	20.44	5.71	0.37	25.80	100.44	0.73	9.24	0.89	1.10	0.02	2.75	1.25	0.03	13.19	
12	4.69	36.37	3.39	3.87	0.25	21.62	4.72	0.55	25.65	101.10	0.71	9.33	0.84	1.13	0.02	2.90	1.03	0.04	13.04	
13	5.00	36.03	3.23	3.91	0.33	21.50	4.59	0.43	26.01	101.03	0.76	9.31	0.81	1.15	0.03	2.90	1.01	0.03	13.32	
14	5.65	35.51	3.14	4.05	0.16	21.45	4.79	0.42	25.47	100.62	0.86	9.17	0.79	1.19	0.01	2.89	1.05	0.03	13.04	
15	20.41	22.66	4.17	2.38	0.15	26.35	0.00	0.17	22.77	99.07	3.48	6.56	1.17	0.78	0.01	3.98	0.00	0.01	13.06	
16	20.16	22.69	4.02	1.75	0.97	26.57	0.00	0.11	23.27	99.54	3.47	6.64	1.14	0.58	0.09	4.06	0.00	0.01	13.49	
17	18.73	22.07	3.97	1.64	1.21	26.03	0.00	0.11	23.32	97.06	3.34	6.68	1.17	0.56	0.12	4.12	0.00	0.01	14.00	
18	18.60	23.00	3.93	2.15	0.86	26.90	0.00	0.09	23.27	98.80	3.21	6.74	1.12	0.72	0.08	4.12	0.00	0.01	13.53	
19	19.68	22.79	3.26	2.05	1.35	26.60	0.00	0.08	23.15	98.97	3.42	6.73	0.94	0.69	0.13	4.10	0.00	0.01	13.54	
20	18.82	23.34	2.91	2.78	1.96	26.43	0.00	0.06	23.07	99.37	3.23	6.81	0.83	0.92	0.18	4.02	0.00	0.01	13.34	
21	18.46	22.73	2.07	2.87	2.19	26.26	0.00	0.09	23.43	98.11	3.26	6.82	0.60	0.98	0.21	4.11	0.00	0.01	13.93	
22	18.07	22.20	0.67	2.15	6.80	25.24	0.00	0.04	22.93	98.08	3.32	6.93	0.20	0.76	0.67	4.11	0.00	0.00	14.18	
23	17.81	21.90	0.37	2.18	7.50	24.90	0.00	0.02	23.19	97.86	3.32	6.92	0.11	0.78	0.75	4.11	0.00	0.00	14.53	
24	32.77	14.05	0.52	5.47	0.01	25.60	0.00	0.09	20.68	99.19	5.78	4.20	0.15	1.86	0.00	4.00	0.00	0.01	12.27	
25	32.41	13.79	0.24	5.48	0.07	25.37	0.42	0.09	21.14	99.01	5.76	4.16	0.07	1.88	0.01	4.00	0.11	0.01	12.65	
26	31.28	15.44	0.24	5.77	0.09	25.12	0.19	0.11	20.86	99.10	5.46	4.57	0.07	1.94	0.01	3.88	0.05	0.01	12.25	
27	30.99	16.23	0.31	5.55	0.22	25.36	0.54	0.10	21.43	100.72	5.32	4.73	0.09	1.84	0.02	3.86	0.13	0.01	12.38	