

Supplementary Materials

Table S1. LA-ICP-MS elemental data for pyrite in typical gold deposits from Yangshan gold belt (in parts per million).

Stage	Sample number	Spot number	Ag	As	Au	Bi	Co	Cu	Ni	Pb	Sb
Py₀											
	AB10PD4-103	04-20-11 02 112	<1.82	389	0.32	0.73	230	68.8	255	523	34.9
	AB10PD4-103	04-20-11 02 113	<1.82	2429	0.15	0.40	196	40.6	864	134	34.6
	AB10PD4-103	04-20-11 02 114	1.18	918	0.37	3.60	446	98.6	594	2075	112
	AB10PD4-103	04-20-11 02 115	<1.82	611	0.37	0.78	280	45.0	462	117	31.9
	AB10PD4-103	04-20-11 02 116	<1.82	169	0.09	<0.43	123	28.0	159	107	8.41
		average	1.25	903	0.26	1.16	255	56.2	467	591	44.4
		median	1.27	611	0.32	0.73	230	45.0	462	134	34.6

Py_{1s}											
	ZK1796-1	04-20-11 02 96	2.09	1059	<0.071	3.60	286	55.9	270	122	58.5
	ZK1796-1	04-20-11 02 97	1.69	1163	0.08	3.26	313	67.8	332	126	60.2
	ZK1796-1	04-20-11 02 98	1.86	798	0.09	3.46	323	79.1	271	148	56.1
	ZK1796-1	04-20-11 02 99	2.05	783	<0.071	3.26	283	109	275	123	51.1
	ZK1796-1	04-20-11 02 100	1.92	1898	<0.071	2.55	171	195	297	101	74.4
	ZK1796-1	04-20-11 02 101	1.25	1026	<0.071	2.59	229	85.1	243	119	52.2
	ZK1716-1	04-20-11 02 102	<1.82	12172	1.26	32.3	174	10.3	578	30.1	19.0
	ZK1716-1	04-20-11 02 103	<1.82	10381	0.78	17.0	255	12.4	133	23.9	9.33
	ZK1716-1	04-20-11 02 104	0.43	10469	4.13	27.8	10.3	9.65	14.3	143	16.5
	ZK1716-1	04-20-11 02 105	<1.82	7409	0.43	22.9	4.41	7.10	29.3	39.8	12.7
	ZK1716-1	04-20-11 02 106	<1.82	8019	0.19	3.42	9.01	6.57	150	4.71	1.53
	ZK1716-1	04-20-11 02 107	<0.35	13126	2.41	0.37	2.42	<3.45	53.4	2.73	0.61
	ZK1716-1	04-20-11 02 108	0.51	4488	1.32	67.8	99.5	42.0	15.4	110	45.8
	ZK1716-1	04-20-11 02 109	<0.35	8313	0.75	10.2	<0.53	5.94	<3.98	19.6	9.33
	ZK1716-1	04-20-11 02 110	<0.35	12562	1.21	1.52	18.0	<3.45	250	1.65	<0.59
	ZK1716-1	04-20-11 02 111	<0.35	9784	0.22	12.5	16.5	7.51	26.1	37.2	11.6
		average	1.12	6466	0.82	13.4	137	43.6	184	72.0	30.0
		median	1.27	7714	0.33	3.53	136	11.3	197	70.4	17.8

Py_{1m}											
	AB10PD4-102	20-11 01 38	4.17	391	<0.39	28.7	7.32	<17.7	<18.8	198	15.0
	AB10PD4-102	20-11 01 40	1.92	347	3.70	49.3	37.7	29.6	<18.8	47.7	<3.87
	AB10PD4-102	20-11 02 33	6.33	4290	0.45	55.7	72.4	119	26.2	444	135
	AB10PD4-102	20-11 02 35	5.17	6911	7.59	37.8	93.0	90.9	11.5	371	64.7
	AB10PD4-102	20-11 02 42	6.62	109	0.14	143	71.7	54.8	32.1	305	3.39
	AB10PD4-102	20-11 02 47	8.51	3845	7.11	140	67.9	122	37.8	429	37.2
	SM1-3	19-11 02 16	<1.69	1295	2.22	2.11	659	4.36	117	38.8	17.5
	SM1-3	19-11 02 17	<1.69	644	0.78	<0.98	284	7.77	73.8	0.46	<6.41

SM1-3	19-11 02 18	0.54	1029	2.21	17.9	534	26.7	115	84.0	11.3
SM1-3	19-11 02 33	0.92	24917	54.0	42.3	49.9	54.8	191	127	33.8
SM1-3	19-11 02 34	2.49	4649	31.6	175	95.4	169	207	689	91.8
SM1-3	19-11 02 35	6.95	5607	17.2	241	335	79.4	473	3089	120
SM1-3	19-11 02 38	1.00	754	1.02	12.5	425	<13.9	92.9	74.0	13.1
SM1-3	19-11 02 39	1.06	3221	1.69	3.17	511	9.70	55.0	276	10.3
SM1-3	19-11 02 83	<1.69	682	1.33	6.05	144	9.77	17.8	58.2	30.9
SM1-3	19-11 02 86	0.73	636	0.91	2.66	56.2	6.94	7.71	53.3	25.8
SM1-3	19-11 02 89	<1.69	9001	22.9	1.28	77.8	27.7	51.5	2.82	1.93
YS-AB-10-PD1-01	20-11 02 51	11.9	182	0.36	95.2	245	15.0	12.4	2497	4.48
YS-AB-10-PD1-01	20-11 02 52	5.43	800	8.47	43.6	209.1	25.2	20.5	1173	201
YS-AB-10-PD1-01	20-11 02 58	3.09	892	0.23	28.6	196	97.1	258	513	43.5
YS-AB-10-PD1-03	19-11 02 51	3.07	16347	29.0	10.3	103	55.2	53.4	90.1	78.1
YS-AB-10-PD1-03	19-11 02 52	2.84	8529	23.8	16.7	100	153	128	460	88.1
YS-AB-10-PD1-03	19-11 02 44	20.1	4005	7.23	51.7	1163	151	1350	2288	150
YS-AB-10-PD1-03	19-11 02 45	4.15	2822	6.13	15.7	418	447	637	430	84.2
YS-AB-10-PD1-04	20-11 02 68	10.7	1234	1.23	911	243	148	82.1	1733	686
YS-AB-10-PD1-04	20-11 02 69	7.45	45803	43.0	26.8	416	463	138	401	418
YS-AB-10-PD1-04	20-11 02 71	11.9	6450	3.50	4052	2262	326	2582	929	871
YS-AB-10-PD1-04	20-11 02 76	9.57	44564	19.0	26.7	660	708	295	459	436
YS-AB-10-PD1-04	20-11 02 79	9.81	37590	45.4	28.5	249	351	108	500	474

average	5.21	8191	11.8	216	337	130	248	612	143
median	4.15	3221	3.70	28.6	209	55.2	82.1	401	43.5

Py₁₋₂

SM1-3	19-11 02 19	0.49	24701	49.6	2.41	44.3	51.6	29.0	28.0	9.15
SM1-3	19-11 02 20	0.48	2454	9.88	9.47	307	15.2	35.4	299	31.9
SM1-3	19-11 02 21	0.86	23096	122	5.99	354	123	133	97.0	28.2
SM1-3	19-11 02 31	<0.32	32398	194	12.4	15.8	159	<3.41	50.7	19.8
SM1-3	19-11 02 32	0.81	32613	207	6.30	68.8	141	39.4	51.1	12.3
SM1-3	19-11 02 40	0.84	28672	176	6.97	42.9	137	12.9	108	27.8
SM1-3	19-11 02 41	1.37	29270	71.0	8.53	51.7	62.5	4.44	418	7.44
SM1-3	19-11 02 87	0.42	28684	62.9	2.82	30.0	47.0	<3.41	122	34.2
YS-AB-10-PD1-03	19-11 02 46	3.86	22522	61.0	3.53	29.4	91.8	14.0	161	139

average	1.04	24934	106	6.49	105	91.9	30.3	148	34.5
median	0.81	28672	71.0	6.30	44.3	91.8	14.0	108	27.8

Py_{2a}

AB10PB4-108_2	19-11 02 61	0.36	20968	1.66	5.50	50.8	53.3	42.8	54.1	47.3
AB10PB4-108_2	19-11 02 64	1.96	34655	3.35	13.9	947	157	606	148	191
AB10PB4-108_2	19-11 02 67	1.63	12761	0.65	2.52	10.3	47.9	8.53	208	171
AB10PB4-108_2	19-11 02 70	0.98	24434	76.6	10.4	69.8	191	32.1	144	109
AB10PB4-108_2	19-11 02 71	0.77	29322	5.07	8.80	176	231	117	137	43.2
AB10PB4-108_2	19-11 02 91	1.05	35587	6.76	1.94	53.6	140	36.5	99.5	104
SM1-3	19-11 02 22	<1.69	28971	38.3	1.84	46.0	43.1	27.8	18.9	9.29

SM1-3	19-11 02 23	<1.69	31197	77.8	2.63	61.9	71.3	51.4	48.4	26.5
SM1-3	19-11 02 24	<1.69	30174	55.2	2.05	65.3	32.4	45.6	35.4	21.4
SM1-3	19-11 02 25	<1.69	24377	37.4	0.24	0.99	27.5	<25.2	0.50	<6.41
SM1-3	19-11 02 29	0.38	27657	56.0	4.32	2.10	128	<3.41	25.6	8.39
SM1-3	19-11 02 30	0.34	30963	75.2	5.54	5.59	92.1	5.71	44.6	18.3
SM1-3	19-11 02 36	<1.69	33971	176	3.41	50.2	81.0	11.0	23.1	7.91
SM1-3	19-11 02 37	0.39	25265	66.1	3.53	30.8	103	15.1	25.6	8.70
SM1-3	19-11 02 42	<0.32	28583	66.0	0.78	14.3	75.2	12.7	13.8	6.16
SM1-3	19-11 02 43	0.56	23365	69.4	1.92	26.1	141	21.6	38.6	18.2
SM1-3	19-11 02 84	<0.32	25124	52.3	4.10	18.7	49.6	23.1	32.3	21.1
SM1-3	19-11 02 88	0.61	25735	60.8	3.07	19.1	63.1	14.2	39.0	23.8
SM1-3	20-11 01 36	<1.82	36603	42.7	2.86	165	694	45.9	45.7	42.5
SM1-3	20-11 01 37	2.76	39768	337	3.10	62.5	647	<18.8	139	114
SM1-3	20-11 01 39	8.99	32761	9.43	32.4	294	730	216	382	310
SM1-3	20-11 02 18	<1.82	28537	37.8	4.36	8.24	41.8	<18.8	9.82	8.23
SM1-3	20-11 02 19	<1.82	30850	77.8	6.65	12.3	88.2	<18.8	17.5	2.43
SM1-3	20-11 02 32	4.56	31246	157	19.01	450	524	208	341	84.2
SM1-3	20-11 02 34	3.20	35345	205	7.67	198	625	49.7	70.0	66.3
SM1-3	20-11 02 41	4.61	15609	48.4	49.4	652	256	169	385	161
YS-AB-10-PD1-03	19-11 02 50	2.62	22625	74.7	5.63	13.7	59.7	17.2	69.8	89.1
YS-AB-10-PD1-03	19-11 02 55	2.46	28650	149	5.73	117	151	164	99.0	136
YS-AB-10-PD1-03	19-11 02 56	1.72	27392	86.6	2.88	33.3	112	32.6	44.3	47.8
YS-AB-10-PD1-03	20-11 02 46	1.06	32208	146	19.1	777	572	483	96.8	28.0
ZK054-4	19-11 02 75	<0.32	9704	8.26	0.41	40.6	5.43	<3.41	2.38	<0.73
ZK054-4	19-11 02 76	0.65	2103	0.20	9.83	2.39	n.d.	<3.41	106	0.98
ZK054-4	19-11 02 80	1.78	8971	6.99	89.1	129	n.d.	11.11	825	3.46

average 1.63 26530 70.0 10.1 139 201 76.7 114 58.6

median 1.18 28583 56.0 4.32 50.2 103 23.1 48.4 26.5

Py^{2b}

AB10PB4-108_2	19-11 01 65	<1.69	33596	0.89	23.4	143	242	60.9	324	321
AB10PB4-108_2	19-11 01 73	2.03	48107	<0.64	5.38	11.0	451	<25.2	198	239
AB10PB4-108_2	19-11 01 93	2.22	48009	2.17	2.17	83.9	219	<25.2	129	148
AB10PB4-108_2	19-11 02 62	1.50	10963	0.07	2.40	21.4	175	8.88	49.8	50.6
AB10PB4-108_2	19-11 02 63	1.90	21154	<0.64	5.97	2.69	146	<25.2	49.2	31.1
AB10PB4-108_2	19-11 02 66	0.78	10501	<0.64	1.31	10.7	214	9.37	40.9	42.8
AB10PB4-108_2	19-11 02 68	2.55	15657	<0.64	3.82	57.1	291	28.4	25.9	69.4
AB10PB4-108_2	19-11 02 69	1.64	42688	0.08	3.84	74.2	393	45.6	102	126
AB10PB4-108_2	19-11 02 72	1.22	18634	<0.64	1.41	29.4	146	9.69	43.7	44.8
AB10PB4-108_2	19-11 02 73	<1.69	11939	24.2	3.83	55.8	16.5	12.1	26.4	<6.41
AB10PB4-108_2	19-11 02 90	1.51	17566	<0.64	0.42	9.39	66.3	7.85	73.0	98.1
AB10PB4-108_2	19-11 02 92	1.39	14814	<0.64	0.58	30.6	188	15.1	66.5	63.3
SM1-3	19-11 02 26	<1.69	30651	63.6	0.25	87.8	77.8	61.3	1.83	0.74
SM1-3	19-11 02 27	<1.69	29393	53.9	1.43	60.3	161	32.9	31.1	20.0

SM1-3	19-11 02 28	0.40	30096	67.8	0.66	51.3	77.7	41.1	9.81	6.86
YS-AB-10-PD1-01	20-11 02 48	3.99	30233	58.8	6.36	105	336	84.3	279	290
YS-AB-10-PD1-01	20-11 02 53	2.96	31050	107	6.13	54.3	370	45.0	208	233
YS-AB-10-PD1-01	20-11 02 55	2.08	30948	90.7	6.07	58.3	338	39.4	289	287
YS-AB-10-PD1-01	20-11 02 56	0.74	33488	109	2.70	43.2	382	26.9	52.1	65.4
YS-AB-10-PD1-01	20-11 02 59	0.55	38278	28.9	1.42	13.5	498	4.79	35.8	49.3
YS-AB-10-PD1-01	20-11 02 60	2.10	32425	67.4	6.72	51.2	303	33.9	106	127
YS-AB-10-PD1-01	20-11 02 62	2.49	26636	57.1	8.14	92.8	249	49.9	163	163
YS-AB-10-PD1-01	20-11 02 64	0.90	33783	107	1.96	178	306	99.4	57.7	74.9
YS-AB-10-PD1-03	19-11 02 54	0.51	28195	35.9	0.34	42.29	275	50.9	11.0	17.4
YS-AB-10-PD1-03	19-11 01 48	2.12	25442	14.3	2.21	123	267	57.2	54.6	65.7
YS-AB-10-PD1-03	19-11 01 53	2.91	29667	12.6	3.13	13.4	356	<25.2	66.7	112
YS-AB-10-PD1-03	19-11 01 60	6.81	30789	14.4	8.97	46.0	452	90.7	219	295
YS-AB-10-PD1-03	19-11 02 47	2.86	19781	29.1	1.10	61.0	252	30.5	46.4	50.6
YS-AB-10-PD1-03	19-11 02 49	0.82	29302	47.5	0.44	7.04	456	3.92	20.0	20.0
YS-AB-10-PD1-03	19-11 02 57	1.34	31470	34.2	1.10	22.4	385	35.5	29.5	37.8
YS-AB-10-PD1-03	19-11 02 58	1.97	37607	46.0	2.10	16.2	531	26.4	59.7	95.7
YS-AB-10-PD1-03	19-11 02 59	4.43	35285	29.5	4.71	33.0	598	27.0	112	166
YS-AB-10-PD1-04	20-11 02 65	0.51	28255	123	1.12	12.1	376	14.9	20.7	31.9
YS-AB-10-PD1-04	20-11 02 70	2.28	37786	3.25	6.23	13.9	583	16.7	99.1	120
YS-AB-10-PD1-04	20-11 02 72	3.11	44829	7.35	15.51	115	508	31.7	338	262
YS-AB-10-PD1-04	20-11 02 73	0.68	42448	39.1	1.55	50.3	826	38.1	28.1	43.5
YS-AB-10-PD1-04	20-11 02 74	3.99	35646	31.1	6.23	23.7	597	21.2	94.6	117
YS-AB-10-PD1-04	20-11 02 75	2.84	37285	47.5	4.46	59.6	650	55.9	56.1	77.2
YS-AB-10-PD1-04	20-11 02 77	1.08	32525	112	1.26	2.11	392	4.11	27.6	30.9
YS-AB-10-PD1-04	20-11 02 78	0.96	37705	26.4	2.88	5.69	648	7.50	34.9	58.8
YS-AB-10-PD1-04	20-11 02 80	1.44	41375	15.4	3.63	20.4	684	13.8	34.9	50.7
YS-AB-10-PD1-04	20-11 02 81	1.70	30082	27.0	3.03	17.6	389	104	65.4	71.3
YS-AB-10-PD1-04	20-11 02 82	4.48	36981	3.88	19.8	291	401	410	250	287
YS-AB-10-PD1-04	20-11 02 83	1.61	44826	27.5	12.7	44.8	634	112	178	142
YS-AB-10-PD1-04	20-11 02 85	1.10	44468	17.1	3.96	49.7	532	201	39.5	79.1
YS-NS-10-05	20-11 02 16	<1.82	27280	95.9	2.42	13.1	47.4	14.0	15.2	9.36
ZK054-4	19-11 02 74	<0.32	11939	24.2	3.83	55.8	16.5	12.1	26.4	<0.73
ZK054-4	19-11 02 77	<0.32	21643	67.61	<0.11	<0.74	18.5	<3.41	<0.27	<0.73

average	1.85	30484	36.9	4.36	51.3	344	45.2	89.3	100
median	1.51	30868	28.2	2.96	44.0	347	27.7	53.4	67.5

Аруы

CM172N3-7	1	3.88	n.d.	23.0	2.15	33.2	49.9	16.6	153	534
CM172N3-7	2	1.99	n.d.	39.4	1.55	24.2	34.6	22.4	90.8	433
CM172N3-7	3	1.59	n.d.	86.1	1.59	16.6	36.0	10.4	36.8	184
CM172N3-7	4	1.47	n.d.	1.76	5.89	40.5	54.4	24.1	41.8	276
CM172N3-7	5	0.55	n.d.	7.75	2.18	5.66	22.1	3.35	15.1	105
CM172N3-7	6	3.99	n.d.	91.4	3.63	63.3	34.9	36.8	1175	2297

CM172N3-7	8	<0.16	n.d.	109	0.26	19.4	51.1	19.3	15.0	101
CM172N3-7	9	1.64	n.d.	58.5	2.76	19.5	36.0	14.5	818	1136
CM172N3-7	10	5.30	n.d.	67.1	6.29	106	77.8	65.2	972	1499
CM15S6-11	2	3.12	n.d.	320	42.0	869	310	359	237	253
CM15S6-11	3	1.88	n.d.	468	8.87	12.2	188	9.18	110	249
CM15S6-11	4	21.1	n.d.	571	21.3	24.7	486	31.6	1041	980
CM15S6-11	6	0.93	n.d.	375	9.11	4.96	213	2.63	37.7	389
CM15S6-11	7	6.08	n.d.	1205	6.56	6.71	167	5.18	377	371
CM23N1-4	1	<0.28	n.d.	0.05	4.03	2.19	258	29.2	27.6	324
CM23N1-4	2	0.24	n.d.	<0.086	1.40	1.72	228	17.3	18.6	180
CM23N1-4	3	0.11	n.d.	<0.046	1.71	6.54	294	24.6	24.3	229
CM23N1-4	4	<0.078	n.d.	<0.14	6.69	2.92	236	102	12.6	735
CM23N1-4	5	0.19	n.d.	<0.046	2.50	5.52	261	34.8	38.7	263
CM23N1-4	6	0.16	n.d.	<0.13	10.7	8.95	327	41.7	36.2	703
CM23N1-4	7	0.21	n.d.	0.09	4.32	22.1	248	52.8	26.5	229
CM23N1-4	8	<0.10	n.d.	0.14	3.31	7.54	294	69.5	10.9	310
CM23N1-4	9	0.33	n.d.	<0.046	9.05	4.84	302	32.4	42.0	525
CM23N1-4	10	0.25	n.d.	<0.046	3.56	7.85	248	44.6	62.2	298
	average	2.31	n.d.	143	6.73	54.8	186	44.5	226	525
	median	0.74	n.d.	15.4	3.83	10.6	220	26.9	40.2	317

Stn

CM152S6-9	1	0.05	n.d.	0.05	0.03	<0.021	96.2	0.07	438	716800
CM152S6-9	2	0.39	n.d.	0.02	0.10	<0.003	68.9	0.03	455	716800
CM152S6-9	3	2.78	n.d.	0.23	0.00	0.01	51.8	<0.23	655	716800
CM152S6-9	4	0.54	n.d.	0.04	0.01	0.003	65.4	0.02	364	716800
CM152S6-9	5	0.26	n.d.	0.03	0.02	0.01	87.1	<0.11	438	716800
CM152S6-9	6	0.55	n.d.	0.06	0.04	0.05	59.9	0.46	374	716800
CM152S6-9	7	0.41	n.d.	0.10	0.00	<0.003	68.5	<0.023	495	716800
CM152S6-9	8	0.95	n.d.	0.11	0.25	<0.040	66.7	0.11	513	716800
CM152S6-9	9	4.50	n.d.	0.42	4.74	<0.056	68.9	<0.023	753	716800
CM152S6-9	10	1.56	n.d.	0.17	0.01	<0.020	65.6	0.02	449	716800
	average	1.20	n.d.	0.12	0.52	0.01	69.9	0.10	493	716800
	median	0.55	n.d.	0.08	0.03	0.01	67.6	0.05	452	716800

Note: values in parts per million. <-values lower than the detection limit; n.d.-not detected.

Table S2. Correlation coefficient matrix diagram of trace-element contents of pyrite in this study.

Py ₁	Ag	As	Au	Bi	Co	Cu	Ni	Pb	Sb
Ag	1.00								
As	0.21	1.00							
Au	0.00	0.77	1.00						
Bi	0.34	-0.06	-0.12	1.00					
Co	0.48	0.06	-0.15	0.79	1.00				
Cu	0.43	0.73	0.37	0.22	0.36	1.00			

Ni	0.53	0.00	-0.06	0.83	0.92	0.35	1.00		
Pb	0.69	-0.11	-0.07	0.18	0.24	0.05	0.32	1.00	
Sb	0.56	0.43	0.19	0.72	0.61	0.62	0.59	0.26	1.00

Py₁₋₂	Ag	As	Au	Bi	Co	Cu	Ni	Pb	Sb	
	Ag	1.00								
	As	-0.04	1.00							
	Au	-0.22	0.69	1.00						
	Bi	-0.33	-0.08	0.37	1.00					
	Co	-0.19	-0.68	-0.26	0.17	1.00				
	Cu	0.01	0.66	0.95	0.33	-0.21	1.00			
	Ni	-0.09	-0.23	0.06	-0.10	0.82	0.16	1.00		
	Pb	0.21	-0.40	-0.52	0.29	0.20	-0.54	-0.19	1.00	
	Sb	0.89	-0.20	-0.27	-0.33	-0.11	-0.03	-0.10	0.02	1.00

Py_{2a}	Ag	As	Au	Bi	Co	Cu	Ni	Pb	Sb	
	Ag	1.00								
	As	0.18	1.00							
	Au	0.16	0.51	1.00						
	Bi	0.42	-0.35	-0.15	1.00					
	Co	0.40	0.19	0.05	0.39	1.00				
	Cu	0.62	0.52	0.47	0.44	0.44	1.00			
	Ni	0.33	0.27	0.01	0.22	0.94	0.36	1.00		
	Pb	0.52	-0.32	-0.11	0.94	0.34	0.52	0.20	1.00	
	Sb	0.79	0.17	0.00	0.23	0.46	0.45	0.47	0.39	1.00

Py_{2b}	Ag	As	Au	Bi	Co	Cu	Ni	Pb	Sb	
	Ag	1.00								
	As	0.17	1.00							
	Au	-0.21	0.08	1.00						
	Bi	0.45	0.30	-0.23	1.00					
	Co	0.30	0.17	-0.09	0.60	1.00				
	Cu	0.29	0.69	-0.13	0.21	-0.03	1.00			
	Ni	0.35	0.26	-0.12	0.53	0.74	0.17	1.00		
	Pb	0.57	0.34	-0.18	0.81	0.50	0.21	0.36	1.00	
	Sb	0.68	0.38	-0.20	0.76	0.48	0.29	0.40	0.96	1.00
