

Probe **Source** **Type**

Metals



SX-100	this study	LL3.00
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SI JEOL 8900	Schrader et al. (2016-GCA)	LL4
SI JEOL 8900	Schrader et al. (2016-GCA)	LL4
SX-100	this study	LL4
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Sulfides



SX-100	this study	LL3.00
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SI JEOL 8900	Schrader et al. (2016-GCA)	LL3.00
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SI JEOL 8900	Schrader et al. (2016-GCA)	LL3.00

Meteorite	Area	Grain	Analysis	Weight%
				Fe
Semarkona USNM1805-17	Ch1	OA9	170	40.3
Semarkona USNM1805-17	Ch4	OA1	139	91.1
Semarkona USNM1805-17	Ch5	OA2	141	95.3
Semarkona USNM1805-17	Ch5	OA3	142	93.9
Semarkona USNM1805-17	Ch7	OA1	154	91.7
Semarkona USNM1805-17	Ch7	OA1	155	91.4
Semarkona USNM1805-17	Ch7	OA1	156	90.9
Semarkona USNM1805-17	Ch8	OA1	157	95.8
Semarkona USNM1805-17	Ch8	OA2	158	95.8
Vicência ASU1996	Ch1	OA1b	5	89.7
Vicência ASU1996	Ch1	OA1b	6	92.7
Vicência ASU1996	Ch1	OA3b	21	60.1
Vicência ASU1996	Ch1	OA3b	22	48.9
Vicência ASU1996	Ch3	OA4	25	64.2
Vicência ASU1996	Ch3	OA4	26	94.3
Vicência ASU1996	Ch3	OA4	27	93.0
Vicência ASU1996	Ch3	OA4	33	54.1
Vicência ASU1996	Ch4	OA6	40	64.2
Vicência ASU1996	Ch4	OA6	41	60.3
Vicência ASU1996	Ch4	OA6	50	59.9
Vicência ASU1996	Ch7	OA8	51	90.9
Vicência ASU1996	Ch7	OA8	52	69.6
Vicência ASU1996	Ch7	OA8	53	92.8
Soko-Banja USNM3078-1	Ch3	OA5	22	95.1
Soko-Banja USNM3078-1	Mx2	OA7	38	60.6
Soko-Banja USNM3078-1	near Ch1		106	60.3
Soko-Banja USNM3078-1	near Ch1		107	52.4

Hamlet ASU1194_C_2	Ch10	OA2	6	48.2
Hamlet ASU1194_C_2	Ch10	OA2	5	50.6
Hamlet ASU1194_C_2	Ch11	OA1	11	66.6
Hamlet ASU1194_C_2	MOA3	MOA3	29	65.5
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Siena USNM3070-3	Ch2	OA5	32	45.0
Siena USNM3070-3	Mx2	OA3	21	47.1
Siena USNM3070-3	Ch1	nearOA7	115	46.6
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Chelyabinsk ASU1801_22_C1	OA3	OA3	1	92.7
Chelyabinsk ASU1801_22_C1	OA3	OA3	2	92.7
Chelyabinsk ASU1801_22_C1	OA4	OA4	13	61.4
Chelyabinsk ASU1801_22_C1	OA4	OA4	14	52.6
Chelyabinsk ASU1801_22_C1	OA4	OA4	15	61.3
Chelyabinsk ASU1801_22_C1	OA4	OA4	16	93.8
Chelyabinsk ASU1801_22_C1	OA4	OA4	17	60.0
Chelyabinsk ASU1801_22_C1	OA4	OA4	18	66.0
Chelyabinsk ASU1801_22_C1	OA5	OA5	22	50.3
Chelyabinsk ASU1801_22_C1	OA5	OA5	23	94.4
Chelyabinsk ASU1801_22_C1	OA5	OA5	24	58.9
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Saint-Séverin USNM2608-3	Mx3	OA4	33	92.8
Saint-Séverin USNM2608-3	Mx3	OA4	43	92.0
Saint-Séverin USNM2608-3	Mx3	OA4	32	49.3
Saint-Séverin USNM2608-3	Mx3	OA4	44	49.3
Saint-Séverin USNM2608-3	Mx3	OA4	302	49.7
Saint-Séverin USNM2608-3	Mx3	OA4	303	49.1
Saint-Séverin USNM2608-3	Mx3	OA4	304	93.1
Saint-Séverin USNM2608-3	Mx3	OA4	305	92.9
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Appley Bridge USNM614-3	Ba	OA2	59	66.1
Appley Bridge USNM614-3	Ba	OA2	60	65.3
Appley Bridge USNM614-3	Ba	OA2	61	64.9
Appley Bridge USNM614-3	Ba	OA2	62	64.3
Appley Bridge USNM614-3	Ba	OA2	63	63.8
Appley Bridge USNM614-3	Ba	OA2	64	64.3
Appley Bridge USNM614-3	Ba	OA2	65	63.8
Appley Bridge USNM614-3	Ba	OA2	66	64.1

Appley Bridge USNM614-3	Bb	OA2	85	64.5
Appley Bridge USNM614-3	Bb	OA2	86	64.6
Appley Bridge USNM614-3		OA1b	97	66.9
Appley Bridge USNM614-3		OA1b	87	71.2
Appley Bridge USNM614-3		OA1b	98	69.9
Appley Bridge USNM614-3	A	OA1	4	3.9
Appley Bridge USNM614-3	A	OA1	17	3.6
Appley Bridge USNM614-3		OA1b	99	45.8
Appley Bridge USNM614-3	A	OA1	3	46.0
Appley Bridge USNM614-3	A	OA1	5	47.5
Appley Bridge USNM614-3	A	OA1	18	45.9
Appley Bridge USNM614-3	A	OA1	19	46.1
Appley Bridge USNM614-3	A	OA1	20	46.2
Appley Bridge USNM614-3	A	OA1	21	46.5
Appley Bridge USNM614-3	A	OA1	22	46.3
Appley Bridge USNM614-3	A	OA1	23	46.5
Appley Bridge USNM614-3	A	OA1	24	46.3
Appley Bridge USNM614-3	A	OA1	25	46.6
Appley Bridge USNM614-3	A	OA1	26	44.7
Appley Bridge USNM614-3	test		1	45.7
Appley Bridge USNM614-3	A	OA1a	39	44.9
Appley Bridge USNM614-3	Ba	OA2	67	46.4
Appley Bridge USNM614-3	Ba	OA2	68	46.3
Appley Bridge USNM614-3	Ba	OA2	57	46.2
Appley Bridge USNM614-3	Ba	OA2	58	46.0



Semarkona USNM1805-17	Ch3	OA10	144	48.2
Semarkona USNM1805-17	Ch6	OA1	188	47.5
Semarkona USNM1805-17	Ch6	OA1	183	47.7
Semarkona USNM1805-17	Ch6	OA1	182	47.8
Semarkona USNM1805-17	Mx3	OA11	78	47.6
Semarkona USNM1805-17	Ch3	OA9	45	47.7
Semarkona USNM1805-17	Ch3	OA10	54	47.9
Semarkona USNM1805-17	Mx3	OA11	71	47.3
Semarkona USNM1805-17	Mx3	OA11	72	47.6
Semarkona USNM1805-17	Ch3	OA10	146	47.9
Semarkona USNM1805-17	Ch1	OA2	1	47.1
Semarkona USNM1805-17	Ch1	OA5	19	46.7
Semarkona USNM1805-17	Ch3	OA10	145	46.6
Semarkona USNM1805-17	Ch1	OA8	22	47.6
Semarkona USNM1805-17	Ch1	OA8	21	47.3

Semarkona USNM1805-17	Ch3	OA9	47	47.8
Semarkona USNM1805-17	Ch3	OA10	55	48.5
Semarkona USNM1805-17	Ch6	OA1	181	46.1
Semarkona USNM1805-17	Ch3	OA9	48	50.1
Semarkona USNM1805-17	Ch3	OA10	56	47.8
Semarkona USNM1805-17	Mx3	OA11	70	46.8
Semarkona USNM1805-17	Ch1	OA2	2	47.6
Semarkona USNM1805-17	Mx3	OA11	73	47.2
Semarkona USNM1805-17	Ch1	OA8	164	47.1
Semarkona USNM1805-17	Ch6	OA2	190	53.0
Semarkona USNM1805-17	Ch1	OA8	161	61.4
Semarkona USNM1805-17	Ch1	OA8	168sx	50.9
Semarkona USNM1805-17	Ch1	OA8	166	53.2
Semarkona USNM1805-17	Ch1	OA8	168	50.2
Semarkona USNM1805-17	Ch1	OA8	25	51.3
Semarkona USNM1805-17	Ch1	OA8	160	49.3
Semarkona USNM1805-17	Ch3	OA10	61	62.8
Semarkona USNM1805-17	Mx3	OA11	75	63.1
Semarkona USNM1805-17	Ch1	OA8	165	62.4
Semarkona USNM1805-17	Ch1	OA4	13	62.5
Semarkona USNM1805-17	Mx3	OA11	76	62.9
Semarkona USNM1805-17	Mx1	OA1c	39	62.7
Semarkona USNM1805-17	Mx1	OA1	36	62.4
Semarkona USNM1805-17	Mx3	OA11	80	62.6
Semarkona USNM1805-17	Mx1	OA1b	38	62.9
Semarkona USNM1805-17	Ch3	OA9	44	63.4
Semarkona USNM1805-17	Ch3	OA9	46	62.9
Semarkona USNM1805-17	Ch3	OA10	151	63.0
Semarkona USNM1805-17	Ch3	OA10	152	63.0
Semarkona USNM1805-17	Ch1	OA8	162	62.5
Semarkona USNM1805-17	Ch1	OA5	20sx	63.4
Semarkona USNM1805-17	Mx3	OA11	77	63.7
Semarkona USNM1805-17	Ch3	OA10	147	63.4
Semarkona USNM1805-17	Ch1	OA4	12sx	63.1
Semarkona USNM1805-17	Ch6	OA1	184	62.9
Semarkona USNM1805-17	Ch1	OA8	167sx	62.5
Semarkona USNM1805-17	Ch6	OA2	189	62.9
Semarkona USNM1805-17	Ch6	OA1	185	63.2
Semarkona USNM1805-17	Ch3	OA10	143	63.3
Semarkona USNM1805-17	Ch6	OA1	186	63.4
Semarkona USNM1805-17	Ch3	OA10	149	63.3

Semarkona USNM1805-17	Ch1	OA9	173	63.1
Semarkona USNM1805-17	Ch1	OA9	172	63.0
Semarkona USNM1805-17	Ch3	OA10	150	63.2
Semarkona USNM1805-17	Ch3	OA10	60sx	63.3
Semarkona USNM1805-17	Ch6	OA1	178	63.5
Semarkona USNM1805-17	Ch3	OA9	42	63.5
Semarkona USNM1805-17	Ch3	OA9	41	63.8
Semarkona USNM1805-17	Ch6	OA1	179	63.3
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Vicência ASU1996	Ch1	OA3	15	45.3
Vicência ASU1996	Ch4	OA6	43	48.9
Vicência ASU1996	Ch1	OA2	62	45.5
Vicência ASU1996	Ch1	OA3	13	44.9
Vicência ASU1996	Ch1	OA2	10	45.9
Vicência ASU1996	Ch1	OA3	12	44.7
Vicência ASU1996	Ch1	OA1	1	46.9
Ni-rich Po				
Vicência ASU1996	Ch1	OA2	9	60.9
Vicência ASU1996	Ch4	OA6	46	50.8
Vicência ASU1996	Ch1	OA2	8	63.1
Vicência ASU1996	Ch4	OA6	42	62.8
Vicência ASU1996	Ch7	OA8	56	63.6
Vicência ASU1996	Ch3	OA4	28	63.7
Vicência ASU1996	Ch1	OA3c	24	63.2
Vicência ASU1996	Ch1	OA2	11	63.3
Vicência ASU1996	Ch4	OA6	47	63.4
Vicência ASU1996	Ch4	OA6	45	63.3
Vicência ASU1996	Ch1	OA3	19	63.9
Vicência ASU1996	Ch3	OA4	30	63.6
Vicência ASU1996	Ch1	OA1	4	62.9
Vicência ASU1996	Ch4	OA6	48	63.0
Vicência ASU1996	Ch1	OA1	2	63.2
Vicência ASU1996	Ch1	OA2	7	63.3
Vicência ASU1996	Ch1	OA3	16	63.5
Vicência ASU1996	Ch1	OA3	20	63.5
Vicência ASU1996	Ch1	OA3	17	63.2
Vicência ASU1996	Ch7	OA8	55	63.3
Vicência ASU1996	Ch7	OA8	54	63.2
Vicência ASU1996	Ch3	OA4	29	63.1
Vicência ASU1996	Ch4	OA6	49	63.3
Vicência ASU1996	Ch1	OA2	64	63.2
Vicência ASU1996	Ch1	OA3	18	62.1

Soko-Banja USNM3078-1	Mx3	OA8	48	48.0
Soko-Banja USNM3078-1	Mx3	OA8	49	46.3
Soko-Banja USNM3078-1	Ch1	OA2	102	47.0
Soko-Banja USNM3078-1	Mx1	OA3	16	45.3
Soko-Banja USNM3078-1	Mx3	OA8	52	45.6
Soko-Banja USNM3078-1	Mx2	OA7	41	46.2
Soko-Banja USNM3078-1	Ch1	OA2	7	47.9
Soko-Banja USNM3078-1	Ch1	OA1	19	46.4
Soko-Banja USNM3078-1	Ch1	OA2	6	49.3
Soko-Banja USNM3078-1	Mx3	OA8	53	46.9
Soko-Banja USNM3078-1	Ch2	OA4	12	45.3
Soko-Banja USNM3078-1	Ch2	OA4	13	60.3
Soko-Banja USNM3078-1	Mx1	OA3	67	64.2
Soko-Banja USNM3078-1	Mx1	OA3	67.5	64.2
Soko-Banja USNM3078-1	Mx1	OA3	34	64.1
Soko-Banja USNM3078-1	Ch3	OA6	29	63.3
Soko-Banja USNM3078-1	Mx1	OA3	66	63.8
Soko-Banja USNM3078-1	Mx1	OA3	37	64.3
Soko-Banja USNM3078-1	Ch3	OA6	30	63.9
Soko-Banja USNM3078-1	Mx1	OA3	65	64.2
Soko-Banja USNM3078-1	Ch1	OA2	20	63.6
Soko-Banja USNM3078-1	Mx1	OA3	63	64.3
Soko-Banja USNM3078-1	Mx1	OA3	36	64.0
Soko-Banja USNM3078-1	Mx1	OA3	64	63.7
Soko-Banja USNM3078-1	Ch2	OA4	69	63.2
Soko-Banja USNM3078-1	Ch3	OA5	23	63.5
Soko-Banja USNM3078-1	Mx3	OA8	57	63.8
Soko-Banja USNM3078-1	Ch1	OA2	9	63.0
Soko-Banja USNM3078-1	Mx1	OA3	33	63.0
Soko-Banja USNM3078-1	Ch1	OA2	100	62.8
Soko-Banja USNM3078-1	Mx1	OA3	35	63.2
Soko-Banja USNM3078-1	Mx3	OA8	55	63.5
Soko-Banja USNM3078-1	Mx3	OA8	50	63.0
Soko-Banja USNM3078-1	Mx2	OA7	45	62.8
Soko-Banja USNM3078-1	Ch2	OA4	68	63.6
Soko-Banja USNM3078-1	Ch3	OA6	28	63.8
Soko-Banja USNM3078-1	Mx3	OA8	51	63.1
Soko-Banja USNM3078-1	Ch3	OA5	24	62.7
Soko-Banja USNM3078-1	Ch3	OA5	26	63.8
Soko-Banja USNM3078-1	Mx2	OA7	44	63.3

Soko-Banja USNM3078-1	Ch1	OA2	21	63.2
Soko-Banja USNM3078-1	Ch3	OA6	32	63.2
Soko-Banja USNM3078-1	Ch2	OA9	70	62.9
Soko-Banja USNM3078-1	Ch2	OA9	71	63.2
Soko-Banja USNM3078-1	Ch3	OA5	25	63.6
Soko-Banja USNM3078-1	Ch1	OA1	17	63.4
Soko-Banja USNM3078-1	Mx1	OA3	14	62.2
Soko-Banja USNM3078-1	Ch3	OA6	31	63.3
Soko-Banja USNM3078-1	Ch1	OA2	103	62.2
Soko-Banja USNM3078-1	Mx3	OA8	59	63.4
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Hamlet ASU1194_C_2	MOA2	MOA2	19	46.0
Hamlet ASU1194_C_2	Ch10	OA1	1	47.1
Hamlet ASU1194_C_2	Ch10	OA1	35	47.2
Hamlet ASU1194_C_2	MOA2	MOA2	21	46.7
Hamlet ASU1194_C_2	Ch10	OA1	2	46.3
Hamlet ASU1194_C_2	MOA2	MOA2	22	45.8
Hamlet ASU1194_C_2	Ch11	OA2	18	44.8
Hamlet ASU1194_C_2	Ch11	OA2	14	48.7
Hamlet ASU1194_C_2	Ch11	OA2	16	46.2
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Hamlet ASU1194_C_2	MOA2	MOA2	23	60.6
Hamlet ASU1194_C_2	Ch11	OA2	12	49.8
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Hamlet ASU1194_C_2	Ch11	OA1	10	63.4
Hamlet ASU1194_C_2	Ch10	OA1	36	63.3
Hamlet ASU1194_C_2	Ch10	OA2	7	63.6
Hamlet ASU1194_C_2	Ch11	OA2	13	63.8
Hamlet ASU1194_C_2	MOA1	MOA1	28	63.6
Hamlet ASU1194_C_2	MOA3	MOA3	34	63.4
Hamlet ASU1194_C_2	MOA1	MOA1	27	63.6
Hamlet ASU1194_C_2	MOA3	MOA3	32	63.7
Hamlet ASU1194_C_2	MOA2	MOA2	20	63.6
Hamlet ASU1194_C_2	MOA1	MOA1	26	63.9
Hamlet ASU1194_C_2	MOA1	MOA1	25	63.5
Hamlet ASU1194_C_2	MOA3	MOA3	31	63.3
Hamlet ASU1194_C_2	MOA3	MOA3	33	63.1
Hamlet ASU1194_C_2	MOA2	MOA2	24	63.4
Hamlet ASU1194_C_2	MOA3	MOA3	30	63.2
Hamlet ASU1194_C_2	Ch11	OA2	17	63.5
Hamlet ASU1194_C_2	Ch10	OA1	4	63.0
Hamlet ASU1194_C_2	Ch10	OA1	3	63.2
Hamlet ASU1194_C_2	Ch11	OA2	15	63.3

Siena USNM3070-3	Mx2	OA2	100	44.6
Siena USNM3070-3	Mx2	OA2	102	44.4
Siena USNM3070-3	Mx2	OA2	3	43.8
Siena USNM3070-3	Ch1	OA7	109	40.4
Siena USNM3070-3	Ch1	OA7	111	41.5
Siena USNM3070-3	Ch1	OA7	110	46.5
Siena USNM3070-3	Ch1	OA7	108	43.2
Siena USNM3070-3	Mx2	OA2	4	44.2
Siena USNM3070-3	Mx3	OA4	27	45.0
Siena USNM3070-3	Mx6	OA11	51	44.2
Siena USNM3070-3	Mx3	OA6	35	44.9
Siena USNM3070-3	Ch1	OA7	2	39.7
Siena USNM3070-3	Mx6	OA11	53	43.3
Siena USNM3070-3	Ch1	OA7	10	40.4
Siena USNM3070-3	Mx5	OA10	44	43.4
Siena USNM3070-3	Ch1	nearOA7	116	62.1
Siena USNM3070-3	Mx2	OA2	104	63.3
Siena USNM3070-3	Ch1	OA7	107	63.5
Siena USNM3070-3	Mx2	OA2	103	63.1
Siena USNM3070-3	Mx2	OA2	105sx	63.6
Siena USNM3070-3	Mx4	OA9	43sx	63.1
Siena USNM3070-3	Ch1	OA7	106sx	63.8
Siena USNM3070-3	Mx1	OA1	15sx	63.8
Siena USNM3070-3	Mx2	OA3	23	62.6
Chelyabinsk ASU1801_22_C1	OA5	OA5	33	44.9
Chelyabinsk ASU1801_22_C1	OA3	OA3	5	45.6
Chelyabinsk ASU1801_22_C1	OA5	OA5	36	45.4
Chelyabinsk ASU1801_22_C1	OA3	OA3	4	45.6
Chelyabinsk ASU1801_22_C1	OA5	OA5	28	44.8
Chelyabinsk ASU1801_22_C1	OA5	OA5	32	44.9
Chelyabinsk ASU1801_22_C1	OA3	OA3	3	63.2
Chelyabinsk ASU1801_22_C1	OA3	OA3	6	63.0
Chelyabinsk ASU1801_22_C1	OA3	OA3	7	63.1
Chelyabinsk ASU1801_22_C1	OA3	OA3	8	62.7
Chelyabinsk ASU1801_22_C1	OA5	OA5	25	63.3
Chelyabinsk ASU1801_22_C1	OA5	OA5	26	63.0
Chelyabinsk ASU1801_22_C1	OA5	OA5	27	62.2
Chelyabinsk ASU1801_22_C1	OA5	OA5	30	62.3
Chelyabinsk ASU1801_22_C1	OA5	OA5	31	62.6

Chelyabinsk ASU1801_22_C1	OA5	OA5	34	62.8
Chelyabinsk ASU1801_22_C1	OA5	OA5	35	63.0
Chelyabinsk ASU1801_22_C1	OA6	OA6	38	64.2
Chelyabinsk ASU1801_22_C1	OA6	OA6	39	64.3
Chelyabinsk ASU1801_22_C1	OA6	OA6	40	63.4
Chelyabinsk ASU1801_22_C1	OA6	OA6	41	62.9
Chelyabinsk ASU1801_22_C1	OA6	OA6	42	64.1
Chelyabinsk ASU1801_22_C1	OA6	OA6	43	63.1
Chelyabinsk ASU1801_22_C1	OA6	OA6	44	62.8
Chelyabinsk ASU1801_22_C1	OA6	OA6	45	62.9
Chelyabinsk ASU1801_22_C1	OA6	OA6	46	63.0
Chelyabinsk ASU1801_22_C1	OA6	OA6	47	62.6
Chelyabinsk ASU1801_22_C1	OA6	OA6	48	62.8
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Saint-Séverin USNM2608-3	Mx4	OA5	51	45.1
Saint-Séverin USNM2608-3	Mx4	OA5	310	45.0
Saint-Séverin USNM2608-3	Mx4	OA5	50	44.7
Saint-Séverin USNM2608-3	Mx4	OA5	309	44.7
Saint-Séverin USNM2608-3	Mx4	OA5	54	43.2
Saint-Séverin USNM2608-3	Mx3	OA4	306	46.2
Saint-Séverin USNM2608-3	Mx4	OA5	55	43.7
Saint-Séverin USNM2608-3	Mx4	OA5	49	43.9
Saint-Séverin USNM2608-3	Mx7	OA10	100	44.1
Saint-Séverin USNM2608-3	Mx6	OA7	68	45.0
Saint-Séverin USNM2608-3	Mx5	OA6	61	44.1
Saint-Séverin USNM2608-3	Mx2	OA3	28	43.9
Saint-Séverin USNM2608-3	Mx2	OA3	30	43.2
Saint-Séverin USNM2608-3	Mx5	OA6	62	44.1
Saint-Séverin USNM2608-3	Mx4	OA5	52	43.0
Saint-Séverin USNM2608-3	Mx7	OA10	97	44.4
Saint-Séverin USNM2608-3	Mx6	OA8	80	46.0
Saint-Séverin USNM2608-3	Mx6	OA9	88	41.3
Saint-Séverin USNM2608-3	Mx1	OA1	2	43.4
Saint-Séverin USNM2608-3	Mx6	OA9	87	41.6
Saint-Séverin USNM2608-3	Mx6	OA9	89	40.9
Saint-Séverin USNM2608-3	Mx6	OA9	86	42.2
Saint-Séverin USNM2608-3	Mx2	OA3	29	42.8
Saint-Séverin USNM2608-3	Mx7	OA10	98	44.0
Saint-Séverin USNM2608-3	Mx6	OA9	90sx	43.1
Saint-Séverin USNM2608-3	Mx7	OA10	101	43.5
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Saint-Séverin USNM2608-3	Mx7	OA10	104	57.4
Saint-Séverin USNM2608-3	Mx3	OA4	307	54.9

Saint-Séverin USNM2608-3	Mx4	OA5	308	63.6
Saint-Séverin USNM2608-3	Mx3	OA4	300	63.3
Saint-Séverin USNM2608-3	Mx1	OA1	10sx	63.9
Saint-Séverin USNM2608-3	Mx2	OA3	21sx	64.0
Saint-Séverin USNM2608-3	Mx6	OA8	77sx	63.9
Saint-Séverin USNM2608-3	Mx6	OA9	92sx	64.0
Saint-Séverin USNM2608-3	Mx2	OA3	22sx	63.9
Saint-Séverin USNM2608-3	Mx3	OA4	40	62.2
Saint-Séverin USNM2608-3	Mx2	OA3	31	62.4
Saint-Séverin USNM2608-3	Mx3	OA4	38	62.4
Saint-Séverin USNM2608-3	Mx4	OA5	46	62.5
Saint-Séverin USNM2608-3	Mx2	OA3	25	62.6
Saint-Séverin USNM2608-3	Mx3	OA4	42	62.3
Saint-Séverin USNM2608-3	Mx2	OA3	26	62.6
Saint-Séverin USNM2608-3	Mx3	OA4	34	61.8
Saint-Séverin USNM2608-3	Mx1	OA1	3	64.0
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Appley Bridge USNM614-3	A	OA1	13	47.3
Appley Bridge USNM614-3	A	OA1	15	47.4
Appley Bridge USNM614-3	A	OA1	12	47.5
Appley Bridge USNM614-3	Ba	OA2	69	46.9
Appley Bridge USNM614-3	Ba	OA2	70	47.0
Appley Bridge USNM614-3	A	OA1	1	47.2
Appley Bridge USNM614-3	A	OA1a	29	47.2
Appley Bridge USNM614-3	A	OA1a	33	46.8
Appley Bridge USNM614-3	Bb	OA2	84	47.6
Appley Bridge USNM614-3	A	OA1a	36	46.7
Appley Bridge USNM614-3	Bb	OA2	83	47.2
Appley Bridge USNM614-3	Bb	OA2	82	46.9
Appley Bridge USNM614-3	A	OA1a	27	47.1
Appley Bridge USNM614-3	A	OA1a	40	46.3
Appley Bridge USNM614-3	A	OA1a	34	46.9
Appley Bridge USNM614-3	Ba	OA2	72	46.9
Appley Bridge USNM614-3	A	OA1b	95	46.2
Appley Bridge USNM614-3	A	OA1b	88	46.3
Appley Bridge USNM614-3	A	OA1b	94	45.8
Appley Bridge USNM614-3	Ba	OA2	52	48.1
<hr/>				
Appley Bridge USNM614-3	Ba	OA2	55	62.0
Appley Bridge USNM614-3	A	OA1a	38	57.5
Appley Bridge USNM614-3	A	OA1b	96	61.3
Appley Bridge USNM614-3	A	OA1b	90	61.0

Appley Bridge USNM614-3	Bb	OA2	77	61.2
Appley Bridge USNM614-3	A	OA1b	89	57.7
Appley Bridge USNM614-3	Bb	OA2	78	60.1
Appley Bridge USNM614-3	A	OA1b	93	59.8
Appley Bridge USNM614-3	A	OA1b	91	59.4
Appley Bridge USNM614-3	A	OA1a	30	54.3
Appley Bridge USNM614-3	Ba	OA2	56	52.9
Appley Bridge USNM614-3	Ba	OA2	54	54.2
Appley Bridge USNM614-3	Bb	OA2	79	51.5
Appley Bridge USNM614-3	A	OA1b	92	49.6
Appley Bridge USNM614-3	Ba	OA2	53	49.8
Appley Bridge USNM614-3	Ba	OA2	73	63.9
Appley Bridge USNM614-3	Ba	OA2	49	63.7
Appley Bridge USNM614-3	A	OA1a	35	63.5
Appley Bridge USNM614-3	Bb	OA2	81	63.7
Appley Bridge USNM614-3	Ba	OA2	51	63.3
Appley Bridge USNM614-3	Bb	OA2	80	63.6
Appley Bridge USNM614-3	A	OA1a	37	63.5
Appley Bridge USNM614-3	Bb	OA2	75	62.8
Appley Bridge USNM614-3	A	OA1	9	63.4
Appley Bridge USNM614-3	A	OA1a	31	63.4
Appley Bridge USNM614-3	A	OA1a	32	63.5
Appley Bridge USNM614-3	A	OA1a	28	63.2

bdl = below det

s

Cameca SX-100	Element	Fe
	det. Limit (wt.%)	0.11
	Standards	chalcopyrite
2016-GCA)		
JEOL 8900	Element	Fe
	det. Limit (wt.%)	0.05
	Standards	Fe metal

S Si P Ti Mn Ca



0.0	0.04	bdl	bdl	bdl	0.04
bdl	0.05	bdl	bdl	bdl	bdl
bdl	0.05	bdl	bdl	bdl	0.03
bdl	0.04	0.23	bdl	bdl	0.15
bdl	1.09	0.46	bdl	bdl	bdl
bdl	1.06	0.51	bdl	bdl	bdl
0.0	0.89	0.43	bdl	bdl	bdl
0.8	0.60	bdl	bdl	bdl	0.12
bdl	0.07	bdl	bdl	bdl	0.03

0.0	0.03	bdl	bdl	bdl	bdl
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0.2	0.02	bdl	bdl	0.03	bdl
bdl	0.02	bdl	bdl	bdl	bdl
0.0	0.02	bdl	bdl	bdl	bdl
0.2	0.02	bdl	bdl	bdl	bdl
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bdl	bdl	bdl	bdl	bdl	bdl

0.0	bdl	bdl	nd	nd	nd
0.0	bdl	bdl	nd	nd	nd
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bdl	bdl	bdl	bdl	bdl	bdl

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bdl	0.02	bdl	bdl	bdl	bdl
bdl	0.02	bdl	bdl	bdl	bdl
bdl	0.03	bdl	bdl	bdl	bdl

0.0	bdl	bdl	nd	nd	nd
0.1	bdl	bdl	nd	nd	nd
0.3	0.03	bdl	bdl	bdl	bdl

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bdl	0.04	bdl	bdl	bdl	bdl
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bdl	0.02	bdl	bdl	bdl	bdl
bdl	0.02	bdl	bdl	bdl	bdl

bdl	bdl	bdl	nd	nd	nd
bdl	bdl	bdl	nd	nd	nd
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0.0	0.02	bdl	bdl	bdl	bdl
0.0	0.02	bdl	bdl	bdl	bdl
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0.0	0.04	bdl	bdl	bdl	bdl

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bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	0.03	bdl	bdl	bdl	bdl

34.4	bdl	bdl	nd	nd	nd
34.5	bdl	bdl	nd	nd	nd
33.7	0.09	0.15	bdl	bdl	0.25
34.7	bdl	bdl	nd	nd	nd
34.1	bdl	bdl	nd	nd	nd
34.2	bdl	bdl	nd	nd	nd
34.1	0.09	bdl	nd	nd	nd
34.4	bdl	bdl	nd	nd	nd
34.3	0.04	bdl	bdl	bdl	0.04
33.8	0.41	bdl	bdl	bdl	0.07
36.3	0.15	bdl	bdl	bdl	0.05
32.8	0.21	bdl	bdl	bdl	0.04
34.0	0.08	bdl	bdl	bdl	0.03
34.3	0.05	bdl	bdl	bdl	0.04
34.1	bdl	0.05	nd	nd	nd
34.2	0.05	bdl	bdl	bdl	0.05
37.1	bdl	bdl	nd	nd	nd
37.2	bdl	bdl	nd	nd	nd
36.8	0.13	bdl	bdl	bdl	0.04
36.8	bdl	bdl	nd	nd	nd
37.1	bdl	bdl	nd	nd	nd
36.9	bdl	bdl	nd	nd	nd
36.7	bdl	bdl	nd	nd	nd
36.8	bdl	bdl	nd	nd	nd
36.9	bdl	bdl	nd	nd	nd
37.2	bdl	bdl	nd	nd	nd
36.9	bdl	bdl	nd	nd	nd
36.9	0.02	bdl	bdl	bdl	0.03
36.8	bdl	bdl	bdl	bdl	bdl
36.5	0.03	bdl	bdl	bdl	0.04
37.0	0.03	bdl	bdl	bdl	bdl
37.2	bdl	bdl	nd	nd	nd
37.0	0.02	bdl	bdl	bdl	bdl
36.8	0.02	bdl	bdl	bdl	bdl
36.6	0.02	bdl	bdl	bdl	bdl
36.4	0.08	bdl	bdl	bdl	0.04
36.6	0.06	bdl	bdl	bdl	0.06
36.8	0.02	bdl	bdl	bdl	bdl
36.8	0.02	bdl	bdl	bdl	bdl
36.8	0.02	bdl	bdl	bdl	bdl
36.7	0.03	bdl	bdl	bdl	bdl

36.6	0.03	bdl	bdl	bdl	0.05
36.5	0.03	bdl	bdl	bdl	0.05
36.5	0.04	bdl	bdl	bdl	0.04
36.5	0.06	bdl	bdl	bdl	bdl
36.7	0.02	bdl	bdl	bdl	bdl
36.7	bdl	bdl	nd	nd	nd
36.7	bdl	bdl	nd	nd	nd
36.4	bdl	bdl	bdl	bdl	bdl
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32.6	0.42	bdl	bdl	bdl	bdl
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33.2	0.16	bdl	bdl	bdl	bdl
33.7	0.02	bdl	bdl	bdl	bdl
33.6	0.17	bdl	bdl	bdl	bdl
33.7	0.02	bdl	bdl	bdl	bdl
34.0	0.03	bdl	bdl	bdl	bdl
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36.1	0.05	bdl	bdl	bdl	bdl
33.7	0.22	bdl	bdl	bdl	bdl
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36.3	0.24	bdl	bdl	bdl	bdl
36.1	0.12	bdl	bdl	bdl	bdl
36.6	bdl	bdl	bdl	bdl	bdl
36.7	0.02	bdl	bdl	bdl	bdl
36.5	0.02	bdl	bdl	bdl	bdl
36.5	0.05	bdl	bdl	bdl	0.03
36.6	0.02	bdl	bdl	bdl	bdl
36.5	bdl	bdl	bdl	bdl	bdl
36.9	bdl	bdl	bdl	bdl	bdl
36.8	0.02	bdl	bdl	bdl	bdl
36.4	0.04	bdl	bdl	bdl	bdl
36.4	bdl	bdl	bdl	bdl	bdl
36.6	0.02	bdl	bdl	bdl	bdl
36.7	0.03	bdl	bdl	0.03	bdl
36.8	0.02	bdl	bdl	bdl	bdl
36.9	bdl	bdl	bdl	bdl	bdl
36.7	0.02	bdl	bdl	bdl	bdl
36.7	bdl	bdl	bdl	bdl	bdl
36.7	0.02	bdl	bdl	bdl	bdl
36.8	bdl	bdl	bdl	bdl	bdl
37.1	0.02	bdl	bdl	bdl	bdl
36.8	0.06	bdl	bdl	bdl	bdl
36.7	0.02	bdl	bdl	bdl	bdl

33.0	0.10	bdl	nd	nd	nd
33.6	bdl	bdl	nd	nd	nd
33.4	0.07	bdl	bdl	bdl	bdl
33.3	bdl	bdl	nd	nd	nd
33.5	bdl	bdl	nd	nd	nd
34.0	bdl	bdl	nd	nd	nd
34.4	bdl	bdl	nd	nd	nd
34.0	0.29	bdl	nd	nd	nd
34.9	bdl	bdl	nd	nd	nd
34.4	bdl	bdl	nd	nd	nd
34.2	bdl	bdl	nd	nd	nd
36.2	0.36	bdl	nd	nd	nd
37.0	bdl	0.03	nd	nd	nd
37.1	bdl	bdl	nd	nd	nd
37.2	bdl	bdl	nd	nd	nd
36.7	bdl	bdl	nd	nd	nd
37.0	bdl	bdl	nd	nd	nd
37.4	bdl	bdl	nd	nd	nd
37.1	bdl	bdl	nd	nd	nd
37.3	bdl	bdl	nd	nd	nd
37.1	bdl	bdl	nd	nd	nd
37.5	bdl	bdl	nd	nd	nd
37.4	bdl	bdl	nd	nd	nd
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37.1	bdl	bdl	nd	nd	nd
37.4	bdl	bdl	nd	nd	nd
36.9	bdl	bdl	nd	nd	nd
36.9	bdl	bdl	nd	nd	nd
36.8	0.02	bdl	bdl	bdl	bdl
37.1	bdl	bdl	nd	nd	nd
37.3	bdl	bdl	nd	nd	nd
37.0	bdl	bdl	nd	nd	nd
36.9	bdl	bdl	nd	nd	nd
37.4	0.06	bdl	nd	nd	nd
37.6	bdl	bdl	nd	nd	nd
37.2	bdl	bdl	nd	nd	nd
36.9	0.05	bdl	nd	nd	nd
37.6	bdl	bdl	nd	nd	nd
37.4	bdl	bdl	nd	nd	nd

37.3	0.07	bdl	nd	nd	nd
37.3	bdl	bdl	nd	nd	nd
37.1	bdl	bdl	nd	nd	nd
37.3	bdl	bdl	nd	nd	nd
37.6	bdl	bdl	nd	nd	nd
37.5	bdl	bdl	nd	nd	nd
36.8	bdl	bdl	nd	nd	nd
37.5	bdl	bdl	nd	nd	nd
36.8	0.03	bdl	bdl	bdl	bdl
37.5	bdl	bdl	nd	nd	nd

33.7	bdl	bdl	bdl	bdl	bdl
33.7	0.08	bdl	bdl	bdl	bdl
33.5	0.09	bdl	bdl	bdl	bdl
33.8	bdl	bdl	bdl	bdl	bdl
33.5	0.18	bdl	bdl	bdl	bdl
33.8	0.02	bdl	bdl	bdl	bdl
34.2	0.03	bdl	bdl	bdl	bdl
34.6	0.02	bdl	bdl	bdl	bdl
34.5	0.02	bdl	bdl	bdl	bdl

36.3	bdl	bdl	bdl	bdl	bdl
34.5	bdl	bdl	bdl	bdl	bdl

36.6	0.03	bdl	bdl	bdl	bdl
36.7	0.09	bdl	bdl	bdl	bdl
36.7	0.02	bdl	bdl	bdl	bdl
36.8	0.02	bdl	bdl	bdl	bdl
36.7	bdl	bdl	bdl	bdl	bdl
36.6	0.04	bdl	bdl	bdl	bdl
36.7	bdl	bdl	bdl	bdl	bdl
36.8	0.09	bdl	bdl	bdl	bdl
36.8	0.02	bdl	bdl	bdl	bdl
37.0	bdl	bdl	bdl	bdl	bdl
36.8	bdl	bdl	bdl	bdl	bdl
36.8	0.06	bdl	bdl	bdl	bdl
36.8	0.06	bdl	bdl	bdl	bdl
37.0	0.02	bdl	bdl	bdl	bdl
36.9	0.03	bdl	bdl	bdl	bdl
37.1	0.03	bdl	bdl	bdl	bdl
36.8	0.08	bdl	bdl	bdl	bdl
37.0	0.05	bdl	bdl	bdl	bdl
37.2	0.02	bdl	bdl	bdl	bdl

33.1	0.02	bdl	bdl	bdl	bdl
33.1	bdl	bdl	bdl	bdl	bdl
33.0	bdl	bdl	nd	nd	nd
33.1	0.06	bdl	bdl	bdl	bdl
33.6	0.02	bdl	bdl	bdl	bdl
34.2	0.05	0.04	bdl	bdl	bdl
34.0	bdl	bdl	bdl	bdl	bdl
33.4	bdl	bdl	nd	nd	nd
33.9	bdl	bdl	nd	nd	nd
33.9	bdl	bdl	nd	nd	nd
34.0	0.13	bdl	nd	nd	nd
33.7	bdl	bdl	nd	nd	nd
33.9	bdl	bdl	nd	nd	nd
34.1	bdl	bdl	nd	nd	nd
34.2	bdl	bdl	nd	nd	nd
35.8	0.31	0.07	bdl	bdl	0.11
36.4	bdl	bdl	bdl	bdl	bdl
36.7	0.02	bdl	bdl	bdl	bdl
36.5	0.02	bdl	bdl	bdl	bdl
36.5	0.02	bdl	bdl	bdl	bdl
36.5	0.06	bdl	bdl	bdl	bdl
36.7	0.02	bdl	bdl	bdl	bdl
36.7	bdl	bdl	bdl	bdl	bdl
37.0	bdl	bdl			
33.1	0.03	bdl	bdl	bdl	0.03
33.5	0.06	bdl	bdl	bdl	bdl
33.5	0.06	bdl	bdl	bdl	0.03
33.5	0.05	bdl	bdl	bdl	bdl
33.6	0.05	bdl	bdl	bdl	bdl
33.5	0.11	bdl	bdl	bdl	0.03
36.9	0.03	bdl	bdl	bdl	bdl
36.8	0.04	bdl	bdl	bdl	bdl
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36.5	0.07	bdl	bdl	bdl	bdl
37.0	0.02	bdl	bdl	bdl	bdl
36.9	0.02	bdl	bdl	bdl	bdl
36.5	0.02	bdl	bdl	bdl	bdl
36.7	0.08	bdl	bdl	bdl	bdl
36.9	0.04	bdl	bdl	bdl	bdl

36.7	0.03	bdl	bdl	bdl	0.03
36.9	0.02	bdl	bdl	bdl	0.03
37.0	bdl	bdl	bdl	bdl	bdl
37.1	bdl	bdl	bdl	bdl	bdl
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36.7	bdl	bdl	bdl	bdl	bdl
37.1	0.02	bdl	bdl	bdl	bdl
36.9	0.03	bdl	bdl	bdl	bdl
36.8	0.03	bdl	bdl	bdl	bdl
36.8	0.02	bdl	bdl	bdl	bdl
37.0	0.02	bdl	bdl	bdl	bdl
36.9	0.03	bdl	bdl	bdl	bdl
36.8	0.03	bdl	bdl	bdl	bdl

33.3	bdl	bdl	nd	nd	nd
33.5	bdl	bdl	bdl	bdl	bdl
33.3	bdl	bdl	nd	nd	nd
33.6	0.02	bdl	bdl	bdl	bdl
33.1	bdl	bdl	nd	nd	nd
33.2	0.11	bdl	bdl	bdl	bdl
33.5	bdl	bdl	nd	nd	nd
33.6	bdl	bdl	nd	nd	nd
33.6	0.07	bdl	nd	nd	nd
33.7	bdl	bdl	nd	nd	nd
33.4	bdl	0.03	nd	nd	nd
33.3	bdl	bdl	nd	nd	nd
33.7	bdl	bdl	nd	nd	nd
33.8	bdl	bdl	nd	nd	nd
33.7	bdl	0.03	nd	nd	nd
33.9	bdl	bdl	nd	nd	nd
33.7	bdl	bdl	nd	nd	nd
33.7	bdl	bdl	nd	nd	nd
34.2	bdl	bdl	nd	nd	nd
34.1	bdl	bdl	nd	nd	nd
34.0	bdl	bdl	nd	nd	nd
34.0	bdl	bdl	nd	nd	nd
34.1	0.05	bdl	nd	nd	nd
34.2	bdl	bdl	nd	nd	nd
33.9	0.02	bdl	bdl	bdl	bdl
34.1	bdl	bdl	nd	nd	nd
35.2	bdl	bdl	nd	nd	nd
34.8	0.02	bdl	bdl	bdl	bdl

36.8	bdl	bdl	bdl	bdl	bdl
36.7	0.03	bdl	bdl	bdl	bdl
37.0	0.03	bdl	bdl	bdl	bdl
36.9	0.02	bdl	bdl	bdl	bdl
37.1	0.02	bdl	bdl	bdl	bdl
37.0	0.02	bdl	bdl	bdl	bdl
37.1	0.02	bdl	bdl	bdl	bdl
36.1	bdl	bdl	nd	nd	nd
36.2	bdl	bdl	nd	nd	nd
36.3	bdl	bdl	nd	nd	nd
36.4	bdl	bdl	nd	nd	nd
36.8	bdl	bdl	nd	nd	nd
36.6	bdl	bdl	nd	nd	nd
36.9	bdl	bdl	nd	nd	nd
36.4	bdl	bdl	nd	nd	nd
37.8	bdl	bdl	nd	nd	nd

33.1	bdl	bdl	bdl	bdl	bdl
33.2	bdl	bdl	bdl	bdl	bdl
33.2	bdl	bdl	bdl	bdl	bdl
33.4	bdl	bdl	bdl	bdl	bdl
33.3	bdl	bdl	bdl	bdl	bdl
33.3	bdl	bdl	bdl	bdl	bdl
33.5	bdl	bdl	bdl	bdl	bdl
33.3	bdl	bdl	bdl	bdl	bdl
33.5	bdl	bdl	bdl	bdl	bdl
33.3	bdl	bdl	bdl	bdl	bdl
33.5	bdl	bdl	bdl	bdl	bdl
33.3	bdl	bdl	bdl	bdl	bdl
33.5	bdl	bdl	bdl	bdl	bdl
33.4	0.03	bdl	bdl	bdl	bdl
33.6	bdl	bdl	bdl	bdl	bdl
33.5	bdl	bdl	bdl	bdl	bdl
33.2	0.02	bdl	bdl	bdl	bdl
33.3	0.02	bdl	bdl	bdl	bdl
33.2	0.03	bdl	bdl	bdl	bdl
34.2	bdl	bdl	bdl	bdl	bdl
36.4	bdl	bdl	bdl	bdl	bdl
35.0	0.03	bdl	bdl	bdl	bdl
35.9	0.03	bdl	bdl	bdl	bdl
35.8	bdl	bdl	bdl	bdl	bdl

36.1	bdl	bdl	bdl	bdl	bdl
34.1	0.02	bdl	bdl	bdl	bdl
36.2	bdl	bdl	bdl	bdl	bdl
35.8	0.02	bdl	bdl	bdl	bdl
35.5	0.02	bdl	bdl	bdl	bdl
34.6	bdl	bdl	bdl	bdl	bdl
34.4	bdl	bdl	bdl	bdl	bdl
34.9	bdl	bdl	bdl	bdl	bdl
34.5	bdl	bdl	bdl	bdl	bdl
34.0	0.02	bdl	bdl	bdl	bdl
34.1	bdl	bdl	bdl	bdl	bdl
36.7	bdl	bdl	bdl	bdl	bdl
36.6	bdl	bdl	bdl	bdl	bdl
36.5	0.03	bdl	bdl	bdl	bdl
36.6	bdl	bdl	bdl	bdl	bdl
36.5	bdl	bdl	bdl	bdl	bdl
36.6	bdl	bdl	bdl	bdl	bdl
36.7	0.03	bdl	bdl	bdl	bdl
36.4	bdl	bdl	bdl	bdl	bdl
36.5	bdl	bdl	bdl	bdl	bdl
36.5	bdl	bdl	bdl	bdl	bdl
36.7	0.03	bdl	bdl	bdl	bdl
36.6	bdl	bdl	bdl	bdl	bdl

ection limit; nd = not determined; Po = pyrrhotite; Pn = pentlandite.

S	Si	P	Ti	Mn	Ca
0.02	0.01	0.02	0.02	0.03	0.02
chalcopyrite	Si metal	dium phosphic	rutile	Mn metal	anorthite
S	Si	P	Ti	Mn	Ca
0.01	0.03	0.02	nd	nd	nd
troilite	Si metal	schreibersite			

Ni Co Cr Mg Al Cu



56.19	2.58	0.04	bdl	0.05	bdl
8.81	0.56	0.10	bdl	0.05	bdl
2.74	0.42	0.10	0.04	bdl	bdl
4.44	0.29	0.08	bdl	bdl	bdl
5.52	0.19	0.88	bdl	bdl	bdl
5.95	0.23	0.69	bdl	bdl	bdl
8.10	0.24	0.51	bdl	bdl	bdl
0.47	bdl	0.11	0.29	0.13	bdl
2.06	0.15	0.15	bdl	bdl	bdl

9.09	1.82	0.04	bdl	bdl	bdl
5.54	1.73	bdl	bdl	bdl	bdl
39.39	0.36	bdl	bdl	bdl	bdl
50.03	0.19	bdl	bdl	bdl	0.26
35.06	0.38	bdl	bdl	bdl	bdl
5.52	1.61	bdl	bdl	bdl	bdl
5.38	1.58	bdl	bdl	bdl	bdl
43.15	0.26	bdl	bdl	bdl	0.24
34.84	0.44	0.03	bdl	bdl	bdl
37.88	0.34	0.21	bdl	bdl	0.21
38.03	0.26	0.07	bdl	bdl	0.19
6.60	1.63	bdl	bdl	bdl	bdl
30.08	0.58	bdl	bdl	bdl	bdl
5.99	1.58	bdl	bdl	bdl	bdl

4.75	1.31	bdl	nd	bdl	bdl
40.12	0.11	bdl	nd	bdl	0.28
38.68	0.58	bdl	bdl	bdl	0.17
45.45	0.37	0.03	bdl	0.04	0.22

49.87	0.13	0.04	bdl	bdl	bdl
48.57	0.19	0.06	bdl	bdl	0.22
32.94	0.47	bdl	bdl	bdl	bdl
33.07	0.42	bdl	bdl	bdl	bdl

54.65	bdl	0.56	nd	bdl	0.25
52.36	bdl	bdl	nd	bdl	0.27
51.57	0.31	bdl	bdl	bdl	0.24

4.79	2.22	bdl	bdl	bdl	bdl
4.89	2.23	bdl	bdl	bdl	bdl
38.07	0.63	bdl	bdl	bdl	bdl
47.45	0.44	bdl	bdl	bdl	0.14
37.08	0.65	bdl	bdl	bdl	0.15
3.83	2.18	bdl	bdl	bdl	bdl
37.90	0.63	bdl	bdl	bdl	bdl
33.12	0.89	bdl	bdl	bdl	0.15
49.05	0.42	bdl	bdl	bdl	0.26
3.75	2.25	bdl	bdl	bdl	bdl
39.41	0.55	bdl	bdl	bdl	0.14

4.43	2.31	bdl	nd	bdl	bdl
4.46	2.33	bdl	nd	bdl	bdl
48.54	1.07	bdl	nd	bdl	0.27
48.06	1.06	bdl	nd	bdl	0.36
49.50	0.93	bdl	bdl	bdl	0.22
49.25	0.98	bdl	bdl	bdl	0.15
4.37	2.96	bdl	bdl	bdl	bdl
4.39	2.98	bdl	bdl	bdl	bdl

0.55	33.66	bdl	bdl	bdl	bdl
0.65	34.62	bdl	bdl	bdl	bdl
0.66	35.06	bdl	bdl	bdl	bdl
0.70	35.57	bdl	bdl	bdl	bdl
0.60	36.19	bdl	bdl	bdl	bdl
0.71	35.76	bdl	bdl	bdl	bdl
0.72	36.14	bdl	bdl	bdl	bdl
0.95	35.09	bdl	bdl	bdl	bdl

0.67	35.79	bdl	bdl	bdl	bdl
0.75	35.42	bdl	bdl	bdl	bdl
1.15	32.47	bdl	bdl	bdl	bdl
1.41	28.06	bdl	bdl	bdl	bdl
1.50	29.05	bdl	bdl	bdl	bdl
3.91	0.15	bdl	bdl	bdl	94.35
1.97	0.44	bdl	bdl	bdl	96.33
51.94	2.44	bdl	bdl	bdl	0.18
51.78	2.07	bdl	bdl	bdl	0.23
52.09	2.09	bdl	bdl	bdl	0.19
51.90	2.17	bdl	bdl	bdl	0.53
52.09	2.17	bdl	bdl	bdl	0.25
51.91	2.19	bdl	bdl	bdl	0.24
52.04	2.17	bdl	bdl	bdl	0.16
51.86	2.16	bdl	bdl	bdl	0.18
51.78	2.10	bdl	bdl	bdl	0.18
52.08	2.12	bdl	bdl	bdl	0.13
51.43	2.07	bdl	bdl	bdl	0.23
52.64	2.59	bdl	bdl	bdl	0.21
51.33	2.00	bdl	nd	nd	bdl
51.79	2.53	bdl	bdl	bdl	0.35
51.86	2.20	bdl	bdl	bdl	0.16
51.48	2.11	bdl	bdl	bdl	0.19
52.13	2.25	bdl	bdl	bdl	0.17
51.95	2.19	bdl	bdl	bdl	0.15



17.44	0.60	0.04	bdl	bdl	0.16
17.95	0.54	0.04	bdl	bdl	bdl
17.60	0.49	0.03	bdl	bdl	0.14
16.53	0.46	0.03	bdl	bdl	0.18
18.42	0.32	0.04	nd	bdl	0.11
17.47	0.12	0.19	nd	bdl	bdl
17.96	0.46	bdl	nd	bdl	0.17
18.00	0.40	bdl	nd	bdl	0.14
18.51	0.32	bdl	nd	bdl	bdl
17.21	0.63	bdl	bdl	bdl	bdl
18.02	0.24	bdl	nd	bdl	0.10
17.42	0.28	bdl	nd	bdl	0.29
17.40	0.60	0.04	bdl	bdl	bdl
17.76	0.30	0.05	nd	bdl	0.16
17.82	0.30	0.10	nd	bdl	0.18

18.19	0.20	bdl	nd	bdl	0.17
17.41	0.43	bdl	nd	bdl	0.13
17.96	0.52	0.04	bdl	bdl	0.27
16.02	0.17	0.04	nd	bdl	bdl
17.19	0.32	0.04	nd	bdl	bdl
18.06	0.42	bdl	nd	bdl	0.15
16.93	0.21	bdl	nd	bdl	0.13
17.63	0.37	bdl	nd	bdl	bdl
17.06	0.60	0.04	bdl	bdl	0.13
10.64	0.21	0.04	bdl	0.06	bdl
1.11	bdl	0.06	bdl	bdl	bdl
15.29	0.52	0.05	bdl	bdl	0.18
11.80	0.32	bdl	bdl	bdl	bdl
13.25	0.37	0.08	bdl	bdl	0.15
15.25	0.23	0.21	nd	bdl	0.10
15.37	0.46	0.07	bdl	bdl	0.13
0.15	bdl	bdl	nd	bdl	bdl
0.13	bdl	0.05	nd	bdl	bdl
0.38	bdl	0.08	bdl	bdl	bdl
bdl	bdl	0.06	nd	bdl	bdl
0.10	bdl	0.04	nd	bdl	bdl
bdl	bdl	0.04	nd	bdl	bdl
bdl	bdl	bdl	nd	bdl	bdl
0.10	bdl	0.04	nd	bdl	bdl
bdl	bdl	0.05	nd	bdl	bdl
0.05	bdl	0.06	nd	bdl	bdl
0.18	bdl	0.05	nd	bdl	bdl
bdl	bdl	0.03	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.90	bdl	0.07	bdl	bdl	bdl
bdl	bdl	0.03	bdl	bdl	bdl
0.14	bdl	bdl	nd	bdl	bdl
0.13	bdl	0.04	bdl	bdl	bdl
0.37	bdl	bdl	bdl	bdl	bdl
0.52	bdl	0.04	bdl	bdl	bdl
0.40	bdl	0.08	bdl	bdl	bdl
bdl	bdl	0.06	bdl	bdl	bdl
bdl	bdl	0.03	bdl	bdl	bdl
bdl	bdl	0.03	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.11	bdl	0.03	bdl	bdl	bdl

bdl	bdl	0.08	bdl	bdl	bdl
bdl	bdl	0.06	bdl	bdl	bdl
bdl	bdl	0.04	bdl	bdl	bdl
0.16	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	0.05	nd	bdl	bdl
bdl	bdl	0.07	nd	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
<hr/>					
18.96	0.78	bdl	0.10	0.03	bdl
16.33	0.20	0.03	bdl	bdl	0.33
18.61	0.66	0.12	bdl	0.03	0.23
20.46	0.73	bdl	bdl	bdl	bdl
18.57	0.66	bdl	bdl	bdl	0.25
20.29	0.73	bdl	bdl	bdl	bdl
18.18	0.53	bdl	bdl	bdl	0.17
3.15	0.09	0.09	bdl	0.03	0.18
13.89	0.19	0.22	0.21	bdl	0.26
bdl	bdl	bdl	0.19	bdl	bdl
0.23	bdl	0.03	0.07	bdl	bdl
bdl	bdl	bdl	bdl	bdl	0.15
bdl	bdl	bdl	bdl	bdl	0.32
bdl	bdl	bdl	bdl	bdl	0.12
bdl	bdl	0.03	bdl	bdl	0.15
bdl	bdl	0.03	bdl	bdl	0.13
bdl	bdl	0.11	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	0.17
0.11	bdl	0.03	bdl	bdl	0.22
bdl	bdl	0.25	bdl	bdl	bdl
bdl	bdl	0.03	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	0.13
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	0.23
bdl	bdl	bdl	bdl	bdl	0.18
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	0.30
bdl	bdl	bdl	bdl	bdl	0.19
bdl	bdl	0.04	bdl	bdl	bdl
0.37	bdl	bdl	bdl	bdl	bdl

bdl	bdl	0.05	nd	bdl	bdl
bdl	bdl	bdl	nd	bdl	bdl
bdl	bdl	0.04	nd	bdl	bdl
bdl	bdl	bdl	nd	bdl	bdl
bdl	bdl	bdl	nd	bdl	bdl
bdl	bdl	bdl	nd	bdl	bdl
bdl	bdl	bdl	nd	bdl	bdl
bdl	bdl	bdl	nd	bdl	bdl
bdl	bdl	0.06	bdl	bdl	bdl
bdl	bdl	bdl	nd	bdl	bdl
<hr/>					
19.74	0.69	bdl	bdl	bdl	bdl
18.05	0.77	bdl	0.06	bdl	bdl
17.87	0.81	bdl	bdl	bdl	bdl
18.80	0.37	bdl	bdl	bdl	0.13
18.04	0.98	bdl	bdl	0.05	bdl
18.04	2.02	bdl	bdl	bdl	bdl
21.31	0.43	bdl	bdl	bdl	bdl
17.40	0.39	bdl	bdl	bdl	0.13
19.50	0.50	bdl	bdl	bdl	0.12
<hr/>					
2.28	0.33	bdl	bdl	bdl	bdl
15.66	0.45	bdl	bdl	bdl	bdl
<hr/>					
0.15	bdl	bdl	bdl	bdl	bdl
0.12	bdl	0.05	bdl	bdl	bdl
0.27	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.18	bdl	0.03	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	0.04	bdl	bdl	bdl
0.17	bdl	bdl	bdl	bdl	bdl

0.12	bdl	bdl	bdl	bdl	bdl
0.19	bdl	bdl	bdl	bdl	bdl
0.20	bdl	bdl	bdl	bdl	bdl
0.22	bdl	bdl	bdl	bdl	bdl
0.21	bdl	bdl	bdl	bdl	bdl
0.21	bdl	bdl	bdl	bdl	bdl
0.13	bdl	bdl	bdl	bdl	bdl
0.17	bdl	bdl	bdl	bdl	bdl
0.24	bdl	bdl	bdl	bdl	bdl
0.29	bdl	bdl	bdl	bdl	bdl
0.22	bdl	bdl	bdl	bdl	bdl
0.19	bdl	bdl	bdl	bdl	bdl
0.11	bdl	bdl	bdl	bdl	bdl

20.61	0.55	bdl	nd	bdl	bdl
20.49	0.84	bdl	bdl	bdl	bdl
20.54	0.52	bdl	nd	bdl	bdl
20.72	1.01	bdl	bdl	bdl	bdl
20.84	0.81	bdl	nd	bdl	0.12
17.17	0.75	bdl	bdl	bdl	0.84
20.66	0.93	bdl	nd	bdl	0.09
20.97	0.79	bdl	nd	bdl	bdl
20.30	0.85	bdl	nd	bdl	0.11
17.41	2.02	bdl	nd	bdl	1.19
20.65	bdl	bdl	nd	bdl	0.13
18.86	1.82	bdl	nd	bdl	0.09
19.61	2.41	bdl	nd	bdl	bdl
20.97	bdl	bdl	nd	bdl	0.11
20.95	0.81	bdl	nd	bdl	bdl
19.64	0.64	bdl	nd	bdl	0.09
17.63	0.30	bdl	nd	bdl	0.45
22.49	0.69	bdl	nd	bdl	bdl
21.51	bdl	bdl	nd	bdl	bdl
22.40	0.62	bdl	nd	bdl	bdl
22.72	0.71	bdl	nd	bdl	bdl
21.65	0.46	bdl	nd	bdl	0.09
19.41	2.25	bdl	nd	bdl	bdl
19.67	0.67	bdl	nd	bdl	bdl
23.12	1.05	bdl	bdl	bdl	bdl
19.90	0.69	bdl	nd	bdl	bdl
5.57	bdl	bdl	nd	bdl	0.36
10.61	0.23	bdl	bdl	bdl	bdl

bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.15	bdl	bdl	nd	bdl	bdl
bdl	bdl	bdl	nd	bdl	bdl
0.11	bdl	bdl	nd	bdl	bdl
bdl	bdl	bdl	nd	bdl	bdl
bdl	bdl	bdl	nd	bdl	bdl
bdl	bdl	bdl	nd	bdl	bdl
0.05	bdl	bdl	nd	bdl	bdl
0.06	bdl	bdl	nd	bdl	bdl
bdl	bdl	bdl	nd	bdl	bdl

17.21	0.42	bdl	bdl	bdl	1.26
17.44	0.42	bdl	bdl	bdl	1.01
17.44	0.54	bdl	bdl	bdl	0.96
18.01	0.65	bdl	bdl	bdl	0.86
17.45	0.54	bdl	bdl	bdl	1.18
17.37	0.53	bdl	bdl	bdl	1.03
18.12	0.53	bdl	bdl	bdl	0.47
18.17	0.62	bdl	bdl	bdl	0.41
17.06	0.45	bdl	bdl	bdl	1.12
18.25	0.59	bdl	bdl	bdl	0.34
17.48	0.57	bdl	bdl	bdl	1.08
17.46	0.52	bdl	bdl	bdl	0.96
18.18	0.53	bdl	bdl	bdl	0.38
17.99	0.48	bdl	bdl	bdl	0.81
17.90	0.54	bdl	bdl	bdl	0.38
17.30	0.57	bdl	bdl	bdl	0.70
18.25	0.80	bdl	bdl	bdl	1.70
18.26	0.86	bdl	bdl	bdl	1.77
18.79	0.73	bdl	bdl	bdl	1.77
17.01	0.57	bdl	bdl	bdl	0.26
1.17	bdl	bdl	bdl	bdl	0.30
1.52	0.47	bdl	bdl	bdl	4.11
1.55	bdl	bdl	bdl	bdl	1.26
1.62	0.73	bdl	bdl	bdl	1.41

2.12	bdl	bdl	bdl	bdl	1.21
4.07	0.88	bdl	bdl	bdl	1.52
4.23	0.11	bdl	bdl	bdl	0.26
4.53	0.13	bdl	bdl	bdl	1.22
4.91	bdl	bdl	bdl	bdl	1.26
8.78	0.50	bdl	bdl	bdl	2.69
10.61	0.38	bdl	bdl	bdl	1.30
11.65	0.59	bdl	bdl	bdl	0.24
11.96	0.40	bdl	bdl	bdl	0.49
14.96	0.54	bdl	bdl	bdl	1.68
15.79	0.48	bdl	bdl	bdl	bdl

bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	0.66
0.14	bdl	bdl	bdl	bdl	bdl
0.18	bdl	bdl	bdl	bdl	bdl
0.22	bdl	bdl	bdl	bdl	0.16
0.29	bdl	bdl	bdl	bdl	bdl

Ni	Co	Cr	Mg	Al	Cu
0.10	0.09	0.02	0.03	0.02	0.12
Ni metal	Co metal	chromite	forsterite	spinel	chalcopyrite

Ni	Co	Cr	Mg	Al	Cu
0.04	0.05	0.03	nd	0.02	0.08
Ni metal	Co metal	Cr metal		Al metal	Cu metal

New Total	Mineral	Atomic%	
		Fe	S
99.3	Ni-rich	41.74	0.08
100.6	Ni-poor	90.79	bdl
98.7	Ni-poor	96.60	bdl
99.2	Ni-poor	94.66	bdl
99.8	Ni-poor	90.72	bdl
99.9	Ni-poor	90.45	bdl
101.1	Ni-poor	89.13	0.06
98.4	Ni-poor	95.72	1.43
98.2	Ni-poor	97.52	bdl
100.8	Ni-poor	89.47	0.08
100.0	Ni-poor	93.02	bdl
99.9	Ni-met	61.34	bdl
99.4	Ni-met	50.44	bdl
99.7	Ni-met	65.57	bdl
101.4	Ni-poor	93.29	bdl
100.1	Ni-poor	93.20	0.14
98.0	Ni-met	56.28	0.44
99.5	Ni-met	65.62	bdl
99.0	Ni-met	62.05	0.08
98.6	Ni-met	61.80	0.29
99.2	Ni-poor	92.07	bdl
100.3	Ni-met	70.44	bdl
100.3	Ni-poor	92.79	bdl
101.2	Ni-poor metal	94.25	0.05
101.1	Ni-rich metal	61.10	0.05
99.8	Ni-rich metal	61.67	bdl
98.6	Ni-rich metal	54.43	bdl

98.3	Ni-met	50.24	0.07
99.7	Ni-met	52.01	bdl
100.1	Ni-met	67.69	bdl
99.0	Ni-met	67.22	bdl
100.5	Ni-rich metal	45.98	0.05
99.8	Ni-rich metal	48.41	0.14
99.0	Ni-rich metal	48.21	0.48
99.7	Ni-poor met	93.25	bdl
99.8	Ni-poor met	93.16	bdl
100.2	Ni-rich met	62.46	bdl
100.6	Ni-rich met	53.45	bdl
99.2	Ni-rich met	62.95	bdl
99.9	Ni-poor met	94.20	bdl
98.5	Ni-rich met	62.02	bdl
100.2	Ni-rich met	66.94	bdl
100.1	Ni-rich met	51.52	bdl
100.4	Ni-poor met	94.27	bdl
99.0	Ni-rich met	60.65	bdl
99.6	metal	93.55	bdl
98.8	metal	93.45	bdl
99.2	Ni-met	50.91	0.06
98.8	Ni-met	51.15	0.06
100.4	Ni-rich metal	50.73	0.05
99.6	Ni-rich metal	50.56	0.07
100.5	Ni-poor metal	92.98	bdl
100.3	Ni-poor metal	92.86	0.05
100.4	high-Co, low-Ni metal	67.07	0.05
100.6	high-Co, low-Ni metal	66.09	bdl
100.6	high-Co, low-Ni metal	65.71	bdl
100.5	high-Co, low-Ni metal	65.15	bdl
100.6	high-Co, low-Ni metal	64.67	bdl
100.8	high-Co, low-Ni metal	65.04	bdl
100.7	high-Co, low-Ni metal	64.62	bdl
100.2	high-Co, low-Ni metal	65.20	bdl

101.0	high-Co, low-Ni metal	65.09	bdl
100.8	high-Co, low-Ni metal	65.26	0.04
100.59	high-Co, low-Ni metal	67.71	bdl
100.68	high-Co, low-Ni metal	71.74	0.06
100.42	high-Co, low-Ni metal	70.66	bdl
102.5	Copper	4.24	0.32
102.5	Copper	4.00	0.29
100.42	Ni-rich metal	46.86	bdl
100.1	Ni-rich metal	47.24	bdl
101.8	Ni-rich metal	47.86	bdl
100.4	Ni-rich metal	46.91	bdl
100.6	Ni-rich metal	47.08	bdl
100.6	Ni-rich metal	47.21	bdl
100.9	Ni-rich metal	47.35	bdl
100.5	Ni-rich metal	47.31	bdl
100.6	Ni-rich metal	47.48	bdl
100.6	Ni-rich metal	47.24	bdl
100.4	Ni-rich metal	47.71	bdl
100.2	Ni-rich metal	45.90	bdl
99.0	Ni-rich metal	47.38	bdl
99.5	Ni-rich metal	46.29	bdl
100.7	Ni-rich metal	47.34	0.09
100.2	Ni-rich metal	47.51	0.06
100.7	Ni-rich metal	47.06	bdl
100.4	Ni-rich metal	47.11	bdl



99.9	pn	38.90	47.05
99.6	pn	38.36	47.18
99.6	pn	38.53	47.28
98.3	pn	39.11	47.29
100.5	pn	38.20	47.40
99.0	pn	38.74	47.36
100.4	pn	38.38	47.45
99.6	pn	38.25	47.50
100.5	pn	38.08	47.57
99.5	pn	38.67	47.55
99.2	pn	38.23	47.61
98.1	pn	38.31	47.59
98.0	pn	38.19	47.63
100.0	pn	38.31	47.71
99.6	pn	38.12	47.75

100.8	pn	38.12	47.81
101.0	pn	38.59	47.82
99.1	pn	37.34	47.55
101.0	pn	39.79	47.96
99.5	pn	38.56	47.96
99.6	pn	37.73	48.00
99.0	pn	38.48	48.08
99.6	pn	38.01	48.20
99.3	pn	37.98	48.23
98.2	Ni-rich po	43.02	47.74
99.1	Ni-rich po	48.69	50.12
99.93	Ni-rich po	41.13	46.17
99.4	Ni-rich po	42.86	47.71
98.4	Ni-rich po	40.75	48.43
101.2	Ni-rich po	40.77	47.19
99.6	Ni-rich po	39.68	47.91
100.1	po	49.20	50.69
100.5	po	49.22	50.64
99.9	po	49.00	50.40
99.3	po	49.31	50.64
100.1	po	49.28	50.61
99.7	po	49.32	50.64
99.2	po	49.40	50.60
99.6	po	49.36	50.53
99.9	po	49.42	50.54
100.7	po	49.41	50.50
100.0	po	49.37	50.45
99.9	po	49.47	50.43
99.9	po	49.55	50.45
100.1	po	49.16	50.02
100.51	Po	49.53	50.39
101.0	po	49.52	50.37
100.5	po	49.52	50.31
100.33	Po	49.47	50.22
100.1	po	49.41	50.13
99.44	Po	49.37	50.09
99.8	po	49.55	50.25
100.0	po	49.63	50.32
100.1	po	49.68	50.26
100.2	po	49.72	50.25
100.1	po	49.66	50.19

99.9	po	49.66	50.17
99.7	po	49.68	50.17
99.8	po	49.74	50.12
99.99	Po	49.75	50.04
100.2	po	49.84	50.13
100.3	po	49.84	50.12
100.6	po	49.91	50.03
99.7	po	49.95	50.05
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98.2	pn	37.13	46.55
99.5	pn	39.58	47.39
98.45	Pn	37.20	47.23
99.8	pn	36.22	47.46
99.1	pn	37.23	47.47
99.4	pn	36.17	47.59
99.7	pn	37.78	47.70
100.6	Ni-rich po	47.84	49.41
99.5	Ni-rich po	40.91	47.20
99.8	po	49.62	49.66
99.3	po	49.71	49.79
100.3	po	49.88	50.02
100.8	po	49.79	49.97
99.8	po	49.80	50.09
100.1	po	49.74	50.03
100.2	po	49.77	50.07
99.9	po	49.80	50.11
100.8	po	49.84	50.16
100.5	po	49.74	50.11
99.7	po	49.65	50.03
99.7	po	49.69	50.10
99.8	po	49.77	50.18
100.0	po	49.74	50.19
100.5	po	49.67	50.21
100.4	po	49.73	50.27
100.2	po	49.64	50.18
100.2	po	49.65	50.23
99.8	po	49.70	50.28
100.2	po	49.54	50.25
100.6	po	49.42	50.42
100.11	Po	49.63	50.25
99.2	po	49.15	50.54

98.7	pn	39.22	47.01
100.0	pn	37.35	47.24
99.1	pn	38.20	47.33
98.3	pn	37.12	47.50
98.1	pn	37.35	47.80
99.3	pn	37.33	47.93
100.3	pn	38.36	47.96
99.4	pn	37.47	47.82
100.9	pn	39.15	48.28
99.3	pn	37.85	48.34
98.9	pn	36.69	48.35
98.7	Ni-rich po	47.93	50.11
101.2	po	49.85	50.11
101.3	po	49.80	50.20
101.3	po	49.75	50.25
100.1	po	49.74	50.26
100.9	po	49.73	50.27
101.6	po	49.69	50.31
101.0	po	49.68	50.32
101.5	po	49.68	50.32
100.8	po	49.56	50.36
101.8	po	49.58	50.42
101.4	po	49.57	50.43
100.9	po	49.56	50.44
100.1	po	49.55	50.45
100.6	po	49.54	50.46
101.2	po	49.50	50.50
99.9	po	49.47	50.49
99.9	po	49.47	50.53
99.7	po	49.41	50.48
100.4	po	49.43	50.57
100.9	po	49.41	50.59
100.1	po	49.41	50.59
99.8	po	49.39	50.58
101.1	po	49.33	50.54
101.3	po	49.36	50.64
100.3	po	49.36	50.64
99.7	po	49.29	50.59
101.4	po	49.34	50.66
100.7	po	49.32	50.68

100.6	po	49.23	50.60
100.5	po	49.31	50.69
100.0	po	49.29	50.68
100.5	po	49.30	50.70
101.2	po	49.29	50.71
100.9	po	49.25	50.75
99.0	po	49.25	50.75
100.8	po	49.24	50.76
99.1	po	49.19	50.70
100.9	po	49.23	50.77
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100.1	pn	37.04	47.31
99.8	pn	38.00	47.32
99.48	pn	38.21	47.25
99.8	pn	37.67	47.52
99.1	pn	37.55	47.40
99.6	pn	37.00	47.55
100.7	pn	35.85	47.57
101.2	pn	38.67	47.79
100.8	pn	36.82	47.90
99.5	Ni-rich po	47.98	50.05
100.4	Ni-rich po	39.81	47.95
100.1	po	49.79	50.05
100.27	Po	49.60	50.13
100.6	po	49.74	50.03
100.6	po	49.83	50.14
100.3	po	49.84	50.16
100.1	po	49.80	50.14
100.3	po	49.83	50.17
100.6	po	49.75	50.11
100.4	po	49.81	50.17
100.9	po	49.80	50.20
100.3	po	49.73	50.27
100.1	po	49.65	50.26
100.0	po	49.58	50.33
100.4	po	49.57	50.41
100.1	po	49.55	50.40
100.9	po	49.47	50.33
99.9	po	49.51	50.37
100.3	po	49.46	50.44
100.8	po	49.33	50.51

99.0	pn	36.37	47.00
99.0	pn	36.26	47.03
98.3	pn	36.00	47.19
98.9	pn	33.08	47.15
99.9	pn	33.60	47.29
101.6	pn	36.87	47.31
100.6	pn	34.64	47.51
98.8	pn	36.07	47.51
99.1	pn	36.53	47.88
98.8	pn	35.95	48.06
99.0	pn	36.39	47.97
98.2	pn	32.53	48.07
98.6	pn	35.30	48.13
98.9	pn	32.81	48.29
98.7	pn	35.24	48.46
98.5	po	49.49	49.60
99.7	po	49.93	50.07
100.2	po	49.85	50.12
99.9	po	49.73	50.04
100.33	po	49.94	49.92
99.66	po	49.76	50.15
100.51	po	49.97	49.99
100.51	po	49.98	50.02
99.6	po	49.25	50.75
98.6	pn	36.81	47.29
99.2	pn	37.04	47.34
99.4	pn	36.82	47.38
99.1	pn	37.03	47.48
99.2	pn	36.43	47.54
98.4	pn	36.75	47.70
100.1	po	49.58	50.37
99.9	po	49.51	50.43
100.1	po	49.51	50.42
99.2	po	49.63	50.26
100.4	po	49.49	50.36
100.0	po	49.43	50.41
99.5	po	49.18	50.23
99.3	po	49.27	50.51
100.4	po	49.02	50.30

99.7	po	49.47	50.37
100.1	po	49.40	50.39
101.4	po	49.85	50.00
101.6	po	49.78	50.06
100.4	po	49.66	50.16
99.9	po	49.52	50.32
101.4	po	49.73	50.15
100.2	po	49.47	50.36
99.9	po	49.37	50.41
100.0	po	49.41	50.34
100.2	po	49.34	50.46
99.7	po	49.24	50.58
99.8	po	49.43	50.44
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99.5	pn	36.60	47.06
99.8	pn	36.38	47.19
99.1	pn	36.45	47.22
100.0	pn	36.07	47.23
98.0	pn	35.52	47.45
98.3	pn	37.87	47.38
98.9	pn	35.65	47.54
99.3	pn	35.64	47.56
99.0	pn	35.88	47.57
99.3	pn	36.52	47.63
98.3	pn	36.11	47.64
98.0	pn	36.08	47.70
98.9	pn	35.20	47.76
98.9	pn	35.85	47.84
98.5	pn	35.13	47.93
98.7	pn	36.15	48.07
98.1	pn	37.64	48.08
98.2	pn	33.81	48.13
99.1	pn	35.19	48.22
98.7	pn	33.84	48.33
98.3	pn	33.44	48.34
98.4	pn	34.41	48.36
98.6	pn	34.83	48.33
98.5	pn	35.83	48.42
101.14	Pn	34.44	47.14
98.2	pn	35.56	48.44
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98.5	Ni-rich po	46.13	49.36
100.5	Ni-rich po	43.61	48.16

100.5	po	49.81	50.19
100.0	po	49.74	50.21
100.87	Po	49.76	50.20
100.95	Po	49.88	50.09
100.97	Po	49.73	50.24
101.03	Po	49.79	50.18
101.03	Po	49.72	50.25
98.4	po	49.71	50.18
98.6	po	49.71	50.29
98.7	po	49.65	50.27
99.0	po	49.64	50.36
99.5	po	49.41	50.59
99.0	po	49.40	50.60
99.6	po	49.34	50.62
98.3	po	49.33	50.63
101.8	po	49.26	50.74
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99.3	pn	38.50	46.94
99.4	pn	38.53	46.94
99.6	pn	38.50	46.94
99.8	pn	37.97	47.04
99.5	pn	38.14	47.13
99.5	pn	38.32	47.13
99.8	pn	38.16	47.16
99.3	pn	38.01	47.16
99.7	pn	38.51	47.20
99.3	pn	37.99	47.20
99.9	pn	38.15	47.21
99.1	pn	38.17	47.22
99.7	pn	38.09	47.24
99.0	pn	37.72	47.34
99.3	pn	38.06	47.44
98.9	pn	38.19	47.47
100.19	Pn	37.31	46.80
100.50	Pn	37.35	46.71
100.26	Pn	36.99	46.70
100.1	pn	38.59	47.80
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99.9	Ni-rich po	48.91	50.00
98.6	Ni-rich po	46.32	49.20
100.08	Ni-rich po	48.46	49.45
100.56	Ni-rich po	48.09	49.17

Si P Ti Mn Ca Ni



0.09	bdl	bdl	bdl	0.06	55.33
0.10	bdl	bdl	bdl	bdl	8.36
0.11	bdl	bdl	bdl	0.05	2.64
0.08	0.42	bdl	bdl	0.21	4.26
2.14	0.83	bdl	bdl	bdl	5.20
2.09	0.91	bdl	bdl	bdl	5.60
1.73	0.76	bdl	bdl	bdl	7.56
1.19	bdl	bdl	bdl	0.17	0.45
0.13	bdl	bdl	bdl	0.04	2.00

0.06	bdl	bdl	bdl	bdl	8.63
0.04	bdl	bdl	bdl	bdl	5.29
0.07	bdl	bdl	bdl	bdl	38.24
0.06	bdl	bdl	bdl	bdl	49.08
bdl	bdl	bdl	bdl	bdl	34.06
bdl	bdl	bdl	bdl	bdl	5.19
0.03	bdl	bdl	bdl	bdl	5.13
0.04	bdl	bdl	0.03	bdl	42.73
0.04	bdl	bdl	bdl	bdl	33.88
0.04	bdl	bdl	bdl	bdl	37.07
0.04	bdl	bdl	bdl	bdl	37.36
bdl	bdl	bdl	bdl	bdl	6.36
0.04	bdl	bdl	bdl	bdl	28.96
bdl	bdl	bdl	bdl	bdl	5.70

bdl	bdl	bdl	bdl	bdl	4.48
bdl	bdl	bdl	bdl	bdl	38.49
bdl	bdl	bdl	bdl	bdl	37.62
bdl	bdl	bdl	bdl	bdl	44.88

0.05	bdl	bdl	bdl	bdl	49.47
0.03	bdl	bdl	bdl	bdl	47.50
0.03	bdl	bdl	bdl	bdl	31.83
0.06	bdl	bdl	bdl	bdl	32.31

bdl	bdl	bdl	bdl	bdl	53.14
bdl	bdl	bdl	bdl	bdl	51.21
0.07	bdl	bdl	bdl	bdl	50.73

0.05	bdl	bdl	bdl	bdl	4.59
0.04	bdl	bdl	bdl	bdl	4.67
0.09	bdl	bdl	bdl	bdl	36.84
0.08	bdl	bdl	bdl	bdl	45.92
0.05	bdl	bdl	bdl	bdl	36.23
0.07	bdl	bdl	bdl	bdl	3.66
0.09	bdl	bdl	bdl	bdl	37.28
0.09	bdl	bdl	bdl	bdl	31.98
0.04	bdl	bdl	bdl	bdl	47.79
0.05	bdl	bdl	bdl	bdl	3.56
0.04	bdl	bdl	bdl	bdl	38.64

bdl	bdl	bdl	bdl	bdl	4.24
bdl	bdl	bdl	bdl	bdl	4.31
bdl	bdl	bdl	bdl	bdl	47.73
bdl	bdl	bdl	bdl	bdl	47.43
0.05	bdl	bdl	bdl	bdl	48.08
0.05	bdl	bdl	bdl	bdl	48.23
0.06	bdl	bdl	bdl	bdl	4.15
0.08	bdl	bdl	bdl	bdl	4.18

bdl	bdl	bdl	bdl	bdl	0.53
0.07	bdl	bdl	bdl	bdl	0.62
bdl	bdl	bdl	bdl	bdl	0.63
bdl	bdl	bdl	bdl	bdl	0.68
bdl	bdl	bdl	bdl	bdl	0.58
bdl	bdl	bdl	bdl	bdl	0.68
bdl	bdl	bdl	bdl	bdl	0.70
0.05	bdl	bdl	bdl	bdl	0.92

0.06	bdl	bdl	bdl	bdl	0.65
0.06	bdl	bdl	bdl	bdl	0.72
0.06	bdl	bdl	bdl	bdl	1.10
0.04	bdl	bdl	bdl	bdl	1.35
0.05	bdl	bdl	bdl	bdl	1.44
0.06	bdl	bdl	bdl	bdl	4.09
bdl	bdl	bdl	bdl	bdl	2.06
0.08	bdl	bdl	bdl	bdl	50.53
bdl	bdl	bdl	bdl	bdl	50.55
bdl	bdl	bdl	bdl	bdl	49.97
bdl	bdl	bdl	bdl	bdl	50.52
bdl	bdl	bdl	bdl	bdl	50.59
bdl	bdl	bdl	bdl	bdl	50.45
bdl	bdl	bdl	bdl	bdl	50.43
bdl	bdl	bdl	bdl	bdl	50.44
bdl	bdl	bdl	bdl	bdl	50.32
bdl	bdl	bdl	bdl	bdl	50.60
bdl	bdl	bdl	bdl	bdl	50.08
bdl	bdl	bdl	bdl	bdl	51.40
bdl	bdl	bdl	bdl	bdl	50.65
0.06	bdl	bdl	bdl	bdl	50.86
bdl	bdl	bdl	bdl	bdl	50.32
bdl	bdl	bdl	bdl	bdl	50.20
0.06	bdl	bdl	bdl	bdl	50.56
0.06	bdl	bdl	bdl	bdl	50.57



0.04	bdl	bdl	bdl	bdl	13.40
0.21	bdl	bdl	bdl	bdl	13.80
0.07	bdl	bdl	bdl	0.08	13.54
0.09	bdl	bdl	bdl	0.11	12.87
bdl	bdl	bdl	bdl	bdl	14.05
0.14	bdl	bdl	bdl	bdl	13.51
bdl	bdl	bdl	bdl	bdl	13.71
bdl	bdl	bdl	bdl	bdl	13.84
bdl	bdl	bdl	bdl	bdl	14.10
0.06	bdl	bdl	bdl	bdl	13.23
bdl	bdl	bdl	bdl	bdl	13.91
0.08	bdl	bdl	bdl	bdl	13.60
0.09	bdl	bdl	bdl	bdl	13.58
bdl	bdl	bdl	bdl	bdl	13.59
bdl	bdl	bdl	bdl	bdl	13.68

bdl	bdl	bdl	bdl	bdl	13.80
bdl	bdl	bdl	bdl	bdl	13.17
0.15	0.22	bdl	bdl	0.29	13.84
bdl	bdl	bdl	bdl	bdl	12.10
bdl	bdl	bdl	bdl	bdl	13.20
bdl	bdl	bdl	bdl	bdl	13.85
0.15	bdl	bdl	bdl	bdl	13.04
bdl	bdl	bdl	bdl	bdl	13.50
0.06	bdl	bdl	bdl	0.04	13.10
0.66	bdl	bdl	bdl	0.08	8.21
0.23	bdl	bdl	bdl	0.05	0.84
0.34	bdl	bdl	bdl	0.04	11.76
0.12	bdl	bdl	bdl	0.03	9.04
0.08	bdl	bdl	bdl	0.04	10.23
bdl	0.07	bdl	bdl	bdl	11.54
0.08	bdl	bdl	bdl	0.05	11.77
bdl	bdl	bdl	bdl	bdl	0.11
bdl	bdl	bdl	bdl	bdl	0.10
0.20	bdl	bdl	bdl	0.04	0.29
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	0.08
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	0.07
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	0.04
bdl	bdl	bdl	bdl	bdl	0.13
0.03	bdl	bdl	bdl	0.03	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.05	bdl	bdl	bdl	0.04	0.68
0.05	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	0.10
0.04	bdl	bdl	bdl	bdl	0.10
0.03	bdl	bdl	bdl	bdl	0.28
0.04	bdl	bdl	bdl	bdl	0.39
0.12	bdl	bdl	bdl	0.04	0.30
0.09	bdl	bdl	bdl	0.06	bdl
0.03	bdl	bdl	bdl	bdl	bdl
0.03	bdl	bdl	bdl	bdl	bdl
0.03	bdl	bdl	bdl	bdl	bdl
0.04	bdl	bdl	bdl	bdl	0.08

0.05	bdl	bdl	bdl	0.05	bdl
0.04	bdl	bdl	bdl	0.05	bdl
0.06	bdl	bdl	bdl	0.04	bdl
0.09	bdl	bdl	bdl	bdl	0.12
0.03	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
<hr/>					
0.69	bdl	bdl	bdl	bdl	14.78
0.04	bdl	bdl	bdl	bdl	12.57
0.25	bdl	bdl	bdl	bdl	14.48
0.04	bdl	bdl	bdl	bdl	15.72
0.28	bdl	bdl	bdl	bdl	14.34
0.03	bdl	bdl	bdl	bdl	15.64
0.05	bdl	bdl	bdl	bdl	13.94
<hr/>					
0.07	bdl	bdl	bdl	bdl	2.36
0.34	bdl	bdl	bdl	bdl	10.64
<hr/>					
0.37	bdl	bdl	bdl	bdl	bdl
0.18	bdl	bdl	bdl	bdl	0.17
bdl	bdl	bdl	bdl	bdl	bdl
0.02	bdl	bdl	bdl	bdl	bdl
0.03	bdl	bdl	bdl	bdl	bdl
0.08	bdl	bdl	bdl	0.03	bdl
0.03	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.03	bdl	bdl	bdl	bdl	bdl
0.06	bdl	bdl	bdl	bdl	0.08
bdl	bdl	bdl	bdl	bdl	bdl
0.03	bdl	bdl	bdl	bdl	bdl
0.05	bdl	bdl	0.02	bdl	bdl
0.03	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.02	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.02	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.03	bdl	bdl	bdl	bdl	bdl
0.09	bdl	bdl	bdl	bdl	bdl
0.04	bdl	bdl	bdl	bdl	0.28

0.15	bdl	bdl	bdl	bdl	13.12
bdl	bdl	bdl	bdl	bdl	15.09
0.11	bdl	bdl	bdl	bdl	13.69
bdl	bdl	bdl	bdl	bdl	14.99
bdl	bdl	bdl	bdl	bdl	14.35
bdl	bdl	bdl	bdl	bdl	14.63
bdl	bdl	bdl	bdl	bdl	13.20
0.46	bdl	bdl	bdl	bdl	13.54
bdl	bdl	bdl	bdl	bdl	12.19
bdl	bdl	bdl	bdl	bdl	13.41
bdl	bdl	bdl	bdl	bdl	13.90
0.56	bdl	bdl	bdl	bdl	1.35
bdl	0.04	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.03	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.09	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.09	bdl	bdl	bdl	bdl	0.04
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl

0.12	bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl	bdl
0.05	bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl	bdl

bdl	bdl	bdl	bdl	bdl	15.13
0.13	bdl	bdl	bdl	bdl	13.85
0.15	bdl	bdl	bdl	bdl	13.77
bdl	bdl	bdl	bdl	bdl	14.43
0.29	bdl	bdl	bdl	bdl	13.93
0.03	bdl	bdl	bdl	bdl	13.87
0.04	bdl	bdl	bdl	bdl	16.21
0.03	bdl	bdl	bdl	bdl	13.14
0.03	bdl	bdl	bdl	bdl	14.79

bdl	bdl	bdl	bdl	bdl	1.72
bdl	bdl	bdl	bdl	bdl	11.90

0.05	bdl	bdl	bdl	bdl	0.12
0.14	bdl	bdl	bdl	bdl	0.09
0.03	bdl	bdl	bdl	bdl	0.20
0.03	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.06	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.15	bdl	bdl	bdl	bdl	bdl
0.03	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.09	bdl	bdl	bdl	bdl	bdl
0.09	bdl	bdl	bdl	bdl	bdl
0.02	bdl	bdl	bdl	bdl	bdl
0.05	bdl	bdl	bdl	bdl	bdl
0.04	bdl	bdl	bdl	bdl	0.13
0.12	bdl	bdl	bdl	bdl	bdl
0.07	bdl	bdl	bdl	bdl	bdl
0.03	bdl	bdl	bdl	bdl	0.13

0.03	bdl	bdl	bdl	bdl	16.21
bdl	bdl	bdl	bdl	bdl	16.33
bdl	bdl	bdl	bdl	bdl	16.63
0.09	bdl	bdl	bdl	bdl	18.30
0.03	bdl	bdl	bdl	bdl	18.20
0.07	0.06	bdl	bdl	bdl	14.94
bdl	bdl	bdl	bdl	bdl	17.03
bdl	bdl	bdl	bdl	bdl	16.26
bdl	bdl	bdl	bdl	bdl	14.75
bdl	bdl	bdl	bdl	bdl	15.99
0.21	bdl	bdl	bdl	bdl	14.66
bdl	bdl	bdl	bdl	bdl	18.45
bdl	bdl	bdl	bdl	bdl	16.57
bdl	bdl	bdl	bdl	bdl	18.22
bdl	bdl	bdl	bdl	bdl	15.75
0.50	0.10	bdl	bdl	0.12	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.03	bdl	bdl	bdl	bdl	bdl
0.02	bdl	bdl	bdl	bdl	0.10
0.03	bdl	bdl	bdl	bdl	0.12
0.09	bdl	bdl	bdl	bdl	bdl
0.03	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.05	bdl	bdl	bdl	0.04	13.79
0.10	bdl	bdl	bdl	bdl	15.15
0.09	bdl	bdl	bdl	0.03	13.98
0.08	bdl	bdl	bdl	bdl	15.06
0.07	bdl	bdl	bdl	bdl	14.64
0.18	bdl	bdl	bdl	0.03	13.43
0.05	bdl	bdl	bdl	bdl	bdl
0.06	bdl	bdl	bdl	bdl	bdl
0.07	bdl	bdl	bdl	bdl	bdl
0.12	bdl	bdl	bdl	bdl	bdl
0.02	bdl	bdl	bdl	bdl	0.13
0.03	bdl	bdl	bdl	bdl	0.13
0.04	bdl	bdl	bdl	bdl	0.44
0.12	bdl	bdl	bdl	bdl	0.10
0.07	bdl	bdl	bdl	bdl	bdl

0.05	bdl	bdl	bdl	0.03	0.09
0.03	bdl	bdl	bdl	0.03	0.14
bdl	bdl	bdl	bdl	bdl	0.15
bdl	bdl	bdl	bdl	bdl	0.16
0.02	bdl	bdl	bdl	bdl	0.16
bdl	bdl	bdl	bdl	bdl	0.16
0.02	bdl	bdl	bdl	bdl	0.09
0.04	bdl	bdl	bdl	bdl	0.13
0.04	bdl	bdl	bdl	bdl	0.18
0.03	bdl	bdl	bdl	bdl	0.21
0.04	bdl	bdl	bdl	bdl	0.17
0.04	bdl	bdl	bdl	bdl	0.14
0.05	bdl	bdl	bdl	bdl	0.08

bdl	bdl	bdl	bdl	bdl	15.92
bdl	bdl	bdl	bdl	bdl	15.78
bdl	bdl	bdl	bdl	bdl	15.93
0.03	bdl	bdl	bdl	bdl	15.91
bdl	bdl	bdl	bdl	bdl	16.32
0.17	bdl	bdl	bdl	bdl	13.39
bdl	bdl	bdl	bdl	bdl	16.02
bdl	bdl	bdl	bdl	bdl	16.20
0.11	bdl	bdl	bdl	bdl	15.71
bdl	bdl	bdl	bdl	bdl	13.45
bdl	0.05	bdl	bdl	bdl	16.10
bdl	bdl	bdl	bdl	bdl	14.74
bdl	bdl	bdl	bdl	bdl	15.19
bdl	bdl	bdl	bdl	bdl	16.23
bdl	0.04	bdl	bdl	bdl	16.28
bdl	bdl	bdl	bdl	bdl	15.22
bdl	bdl	bdl	bdl	bdl	13.73
bdl	bdl	bdl	bdl	bdl	17.53
bdl	bdl	bdl	bdl	bdl	16.58
bdl	bdl	bdl	bdl	bdl	17.35
bdl	bdl	bdl	bdl	bdl	17.66
bdl	bdl	bdl	bdl	bdl	16.81
0.08	bdl	bdl	bdl	bdl	15.02
bdl	bdl	bdl	bdl	bdl	15.23
0.04	bdl	bdl	bdl	bdl	17.58
bdl	bdl	bdl	bdl	bdl	15.46
bdl	bdl	bdl	bdl	bdl	4.26
0.03	bdl	bdl	bdl	bdl	8.03

bdl	bdl	bdl	bdl	bdl	bdl
0.04	bdl	bdl	bdl	bdl	bdl
0.04	bdl	bdl	bdl	bdl	bdl
0.03	bdl	bdl	bdl	bdl	bdl
0.03	bdl	bdl	bdl	bdl	bdl
0.03	bdl	bdl	bdl	bdl	bdl
0.04	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	0.11
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	0.08
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	0.04
bdl	bdl	bdl	bdl	bdl	0.04
bdl	bdl	bdl	bdl	bdl	bdl

bdl	bdl	bdl	bdl	bdl	13.33
bdl	bdl	bdl	bdl	bdl	13.49
bdl	bdl	bdl	bdl	bdl	13.46
bdl	bdl	bdl	bdl	bdl	13.87
bdl	bdl	bdl	bdl	bdl	13.47
bdl	bdl	bdl	bdl	bdl	13.41
bdl	bdl	bdl	bdl	bdl	13.95
bdl	bdl	bdl	bdl	bdl	14.05
bdl	bdl	bdl	bdl	bdl	13.14
bdl	bdl	bdl	bdl	bdl	14.11
bdl	bdl	bdl	bdl	bdl	13.44
bdl	bdl	bdl	bdl	bdl	13.52
bdl	bdl	bdl	bdl	bdl	13.99
0.05	bdl	bdl	bdl	bdl	13.94
bdl	bdl	bdl	bdl	bdl	13.82
bdl	bdl	bdl	bdl	bdl	13.40
0.03	bdl	bdl	bdl	bdl	14.03
0.03	bdl	bdl	bdl	bdl	14.00
0.04	bdl	bdl	bdl	bdl	14.45
bdl	bdl	bdl	bdl	bdl	12.99
bdl	bdl	bdl	bdl	bdl	0.88
0.05	bdl	bdl	bdl	bdl	1.16
0.05	bdl	bdl	bdl	bdl	1.17
bdl	bdl	bdl	bdl	bdl	1.21

bdl	bdl	bdl	bdl	bdl	1.58
0.03	bdl	bdl	bdl	bdl	3.14
bdl	bdl	bdl	bdl	bdl	3.16
0.02	bdl	bdl	bdl	bdl	3.38
0.03	bdl	bdl	bdl	bdl	3.68
bdl	bdl	bdl	bdl	bdl	6.64
bdl	bdl	bdl	bdl	bdl	8.11
bdl	bdl	bdl	bdl	bdl	8.73
bdl	bdl	bdl	bdl	bdl	9.19
0.03	bdl	bdl	bdl	bdl	11.37
bdl	bdl	bdl	bdl	bdl	12.06

bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.04	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
0.05	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	bdl
bdl	bdl	bdl	bdl	bdl	0.10
bdl	bdl	bdl	bdl	bdl	0.14
0.05	bdl	bdl	bdl	bdl	0.16
bdl	bdl	bdl	bdl	bdl	0.22

Co	Cr	Mg	Al	Cu	Total
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2.53	0.05	bdl	0.12	bdl	100.00
0.52	0.11	bdl	0.11	bdl	100.00
0.40	0.11	0.09	bdl	bdl	100.00
0.28	0.09	bdl	bdl	bdl	100.00
0.18	0.94	bdl	bdl	bdl	100.00
0.21	0.73	bdl	bdl	bdl	100.00
0.22	0.53	bdl	bdl	bdl	100.00
bdl	0.11	0.67	0.26	bdl	100.00
0.14	0.17	bdl	bdl	bdl	100.00

1.72	0.05	bdl	bdl	bdl	100.00
1.65	bdl	bdl	bdl	bdl	100.00
0.35	bdl	bdl	bdl	bdl	100.00
0.19	bdl	bdl	bdl	0.24	100.00
0.37	bdl	bdl	bdl	bdl	100.00
1.51	bdl	bdl	bdl	bdl	100.00
1.50	bdl	bdl	bdl	bdl	100.00
0.26	bdl	bdl	bdl	0.22	100.00
0.42	0.03	bdl	bdl	bdl	100.00
0.33	0.23	bdl	bdl	0.19	100.00
0.25	0.08	bdl	bdl	0.18	100.00
1.56	bdl	bdl	bdl	bdl	100.00
0.56	bdl	bdl	bdl	bdl	100.00
1.50	bdl	bdl	bdl	bdl	100.00

1.23	bdl	bdl	bdl	bdl	100.00
0.11	bdl	bdl	bdl	0.25	100.00
0.56	bdl	bdl	bdl	0.15	100.00
0.37	0.03	bdl	0.08	0.20	100.00

0.13	0.05	bdl	bdl	bdl	100.00
0.19	0.07	bdl	bdl	0.20	100.00
0.45	bdl	bdl	bdl	bdl	100.00
0.41	bdl	bdl	bdl	bdl	100.00

bdl	0.61	bdl	bdl	0.23	100.00
bdl	bdl	bdl	bdl	0.24	100.00
0.30	bdl	bdl	bdl	0.22	100.00

2.12	bdl	bdl	bdl	bdl	100.00
2.12	bdl	bdl	bdl	bdl	100.00
0.61	bdl	bdl	bdl	bdl	100.00
0.42	bdl	bdl	bdl	0.13	100.00
0.64	bdl	bdl	bdl	0.13	100.00
2.07	bdl	bdl	bdl	bdl	100.00
0.61	bdl	bdl	bdl	bdl	100.00
0.85	bdl	bdl	bdl	0.13	100.00
0.40	bdl	bdl	bdl	0.24	100.00
2.12	bdl	bdl	bdl	bdl	100.00
0.54	bdl	bdl	bdl	0.13	100.00

2.21	bdl	bdl	bdl	bdl	100.00
2.24	bdl	bdl	bdl	bdl	100.00
1.05	bdl	bdl	bdl	0.25	100.00
1.04	bdl	bdl	bdl	0.33	100.00
0.90	bdl	bdl	bdl	0.20	100.00
0.95	bdl	bdl	bdl	0.14	100.00
2.81	bdl	bdl	bdl	bdl	100.00
2.83	bdl	bdl	bdl	bdl	100.00

32.35	bdl	bdl	bdl	bdl	100.00
33.21	bdl	bdl	bdl	bdl	100.00
33.65	bdl	bdl	bdl	bdl	100.00
34.18	bdl	bdl	bdl	bdl	100.00
34.75	bdl	bdl	bdl	bdl	100.00
34.28	bdl	bdl	bdl	bdl	100.00
34.69	bdl	bdl	bdl	bdl	100.00
33.83	bdl	bdl	bdl	bdl	100.00

34.21	bdl	bdl	bdl	bdl	100.00
33.91	bdl	bdl	bdl	bdl	100.00
31.13	bdl	bdl	bdl	bdl	100.00
26.80	bdl	bdl	bdl	bdl	100.00
27.85	bdl	bdl	bdl	bdl	100.00
0.15	bdl	bdl	bdl	91.14	100.00
0.46	bdl	bdl	bdl	93.19	100.00
2.37	bdl	bdl	bdl	0.16	100.00
2.01	bdl	bdl	bdl	0.21	100.00
2.00	bdl	bdl	bdl	0.17	100.00
2.10	bdl	bdl	bdl	0.47	100.00
2.10	bdl	bdl	bdl	0.23	100.00
2.12	bdl	bdl	bdl	0.21	100.00
2.09	bdl	bdl	bdl	0.14	100.00
2.09	bdl	bdl	bdl	0.16	100.00
2.03	bdl	bdl	bdl	0.16	100.00
2.05	bdl	bdl	bdl	0.11	100.00
2.00	bdl	bdl	bdl	0.21	100.00
2.52	bdl	bdl	bdl	0.19	100.00
1.96	bdl	bdl	bdl	bdl	100.00
2.48	bdl	bdl	bdl	0.31	100.00
2.12	bdl	bdl	bdl	0.14	100.00
2.05	bdl	bdl	bdl	0.18	100.00
2.17	bdl	bdl	bdl	0.15	100.00
2.12	bdl	bdl	bdl	0.13	100.00



0.46	0.03	bdl	bdl	0.11	100.00
0.41	0.04	bdl	bdl	bdl	100.00
0.38	0.03	bdl	bdl	0.10	100.00
0.36	0.03	bdl	bdl	0.13	100.00
0.25	0.04	bdl	bdl	0.08	100.00
0.09	0.16	bdl	bdl	bdl	100.00
0.35	bdl	bdl	bdl	0.12	100.00
0.31	bdl	bdl	bdl	0.10	100.00
0.25	bdl	bdl	bdl	bdl	100.00
0.49	bdl	bdl	bdl	bdl	100.00
0.18	bdl	bdl	bdl	0.07	100.00
0.22	bdl	bdl	bdl	0.21	100.00
0.47	0.04	bdl	bdl	bdl	100.00
0.23	0.04	bdl	bdl	0.11	100.00
0.23	0.09	bdl	bdl	0.13	100.00

0.15	bdl	bdl	bdl	0.12	100.00
0.33	bdl	bdl	bdl	0.09	100.00
0.40	0.03	bdl	bdl	0.19	100.00
0.13	0.03	bdl	bdl	bdl	100.00
0.24	0.03	bdl	bdl	bdl	100.00
0.32	bdl	bdl	bdl	0.11	100.00
0.16	bdl	bdl	bdl	0.10	100.00
0.29	bdl	bdl	bdl	bdl	100.00
0.46	0.04	bdl	bdl	0.09	100.00
0.16	0.04	bdl	0.09	bdl	100.00
bdl	0.05	bdl	bdl	bdl	100.00
0.40	0.04	bdl	bdl	0.13	100.00
0.24	bdl	bdl	bdl	bdl	100.00
0.29	0.07	bdl	bdl	0.11	100.00
0.17	0.18	bdl	bdl	0.07	100.00
0.35	0.06	bdl	bdl	0.09	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	0.04	bdl	bdl	bdl	100.00
bdl	0.06	bdl	bdl	bdl	100.00
bdl	0.05	bdl	bdl	bdl	100.00
bdl	0.03	bdl	bdl	bdl	100.00
bdl	0.03	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	0.03	bdl	bdl	bdl	100.00
bdl	0.04	bdl	bdl	bdl	100.00
bdl	0.05	bdl	bdl	bdl	100.00
bdl	0.05	bdl	bdl	bdl	100.00
bdl	0.03	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	0.06	bdl	bdl	bdl	100.00
bdl	0.02	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	0.03	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	0.03	bdl	bdl	bdl	100.00
bdl	0.07	bdl	bdl	bdl	100.00
bdl	0.05	bdl	bdl	bdl	100.00
bdl	0.03	bdl	bdl	bdl	100.00
bdl	0.03	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	0.02	bdl	bdl	bdl	100.00

bdl	0.07	bdl	bdl	bdl	100.00
bdl	0.05	bdl	bdl	bdl	100.00
bdl	0.03	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	0.04	bdl	bdl	bdl	100.00
bdl	0.06	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
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0.61	bdl	0.19	0.05	bdl	100.00
0.15	0.03	bdl	bdl	0.23	100.00
0.51	0.11	bdl	0.05	0.16	100.00
0.56	bdl	bdl	bdl	bdl	100.00
0.51	bdl	bdl	bdl	0.18	100.00
0.56	bdl	bdl	bdl	bdl	100.00
0.41	bdl	bdl	bdl	0.12	100.00
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0.07	0.08	bdl	0.05	0.12	100.00
0.14	0.19	0.39	bdl	0.18	100.00
<hr/>					
bdl	bdl	0.35	bdl	bdl	100.00
bdl	0.03	0.12	bdl	bdl	100.00
bdl	bdl	bdl	bdl	0.10	100.00
bdl	bdl	bdl	bdl	0.22	100.00
bdl	bdl	bdl	bdl	0.08	100.00
bdl	0.03	bdl	bdl	0.11	100.00
bdl	0.03	bdl	bdl	0.09	100.00
bdl	0.09	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	0.12	100.00
bdl	0.03	bdl	bdl	0.15	100.00
bdl	0.21	bdl	bdl	bdl	100.00
bdl	0.02	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	0.09	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	0.16	100.00
bdl	bdl	bdl	bdl	0.12	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	0.21	100.00
bdl	bdl	bdl	bdl	0.13	100.00
bdl	0.03	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00

bdl	0.05	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	0.03	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	0.05	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
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0.52	bdl	bdl	bdl	bdl	100.00
0.59	bdl	0.11	bdl	bdl	100.00
0.62	bdl	bdl	bdl	bdl	100.00
0.28	bdl	bdl	bdl	0.09	100.00
0.75	bdl	bdl	0.09	bdl	100.00
1.55	bdl	bdl	bdl	bdl	100.00
0.33	bdl	bdl	bdl	bdl	100.00
0.29	bdl	bdl	bdl	0.09	100.00
0.38	bdl	bdl	bdl	0.08	100.00
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0.25	bdl	bdl	bdl	bdl	100.00
0.34	bdl	bdl	bdl	bdl	100.00
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bdl	bdl	bdl	bdl	bdl	100.00
bdl	0.04	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	0.03	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	0.03	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
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bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00

0.42	bdl	bdl	bdl	bdl	100.00
0.64	bdl	bdl	bdl	bdl	100.00
0.41	bdl	bdl	bdl	bdl	100.00
0.77	bdl	bdl	bdl	bdl	100.00
0.63	bdl	bdl	bdl	0.09	100.00
0.59	bdl	bdl	bdl	0.60	100.00
0.72	bdl	bdl	bdl	0.06	100.00
0.60	bdl	bdl	bdl	bdl	100.00
0.65	bdl	bdl	bdl	0.08	100.00
1.55	bdl	bdl	bdl	0.85	100.00
bdl	bdl	bdl	bdl	0.10	100.00
1.41	bdl	bdl	bdl	0.06	100.00
1.86	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	0.08	100.00
0.62	bdl	bdl	bdl	bdl	100.00
0.49	bdl	bdl	bdl	0.07	100.00
0.23	bdl	bdl	bdl	0.32	100.00
0.53	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
0.48	bdl	bdl	bdl	bdl	100.00
0.55	bdl	bdl	bdl	bdl	100.00
0.35	bdl	bdl	bdl	0.07	100.00
1.74	bdl	bdl	bdl	bdl	100.00
0.51	bdl	bdl	bdl	bdl	100.00
0.80	bdl	bdl	bdl	bdl	100.00
0.54	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	0.25	100.00
0.17	bdl	bdl	bdl	bdl	100.00

bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00
bdl	bdl	bdl	bdl	bdl	100.00

0.33	bdl	bdl	bdl	0.90	100.00
0.32	bdl	bdl	bdl	0.72	100.00
0.41	bdl	bdl	bdl	0.69	100.00
0.50	bdl	bdl	bdl	0.61	100.00
0.42	bdl	bdl	bdl	0.84	100.00
0.41	bdl	bdl	bdl	0.74	100.00
0.41	bdl	bdl	bdl	0.33	100.00
0.48	bdl	bdl	bdl	0.29	100.00
0.35	bdl	bdl	bdl	0.80	100.00
0.45	bdl	bdl	bdl	0.24	100.00
0.44	bdl	bdl	bdl	0.77	100.00
0.40	bdl	bdl	bdl	0.68	100.00
0.41	bdl	bdl	bdl	0.27	100.00
0.37	bdl	bdl	bdl	0.58	100.00
0.41	bdl	bdl	bdl	0.27	100.00
0.44	bdl	bdl	bdl	0.50	100.00
0.61	bdl	bdl	bdl	1.21	100.00
0.66	bdl	bdl	bdl	1.25	100.00
0.56	bdl	bdl	bdl	1.26	100.00
0.43	bdl	bdl	bdl	0.19	100.00
bdl	bdl	bdl	bdl	0.21	100.00
0.36	bdl	bdl	bdl	2.91	100.00
bdl	bdl	bdl	bdl	0.88	100.00
0.55	bdl	bdl	bdl	0.98	100.00

		2C (Troilite)	4C
	Fe_{1-x}S	FeS	Fe₇S₈
Fe/S =		1.00	0.875
x =		0.000	0.125

Mineral Fe/S Cations/S x (1-Fe/S)



Ni-rich

Ni-poor

Ni-poor

Ni-poor

Ni-poor

Ni-poor

Ni-poor

Ni-poor

Ni-poor

Ni-poor

Ni-poor

Ni-met

Ni-met

Ni-met

Ni-poor

Ni-poor

Ni-met

Ni-met

Ni-met

Ni-poor

Ni-met

Ni-poor

Ni-poor metal

Ni-rich metal

Ni-rich metal

Ni-rich metal

pn	0.797	1.092	0.203
pn	0.807	1.091	0.193
pn	0.785	1.089	0.215
pn	0.830	1.085	0.170
pn	0.804	1.085	0.196
pn	0.786	1.084	0.214
pn	0.800	1.077	0.200
pn	0.788	1.075	0.212
pn	0.788	1.071	0.212
Ni-rich po	0.901	1.079	0.099
Ni-rich po	0.971	0.989	0.029
Ni-rich po	0.891	1.158	0.109
Ni-rich po	0.898	1.093	0.102
Ni-rich po	0.841	1.062	0.159
Ni-rich po	0.864	1.117	0.136
Ni-rich po	0.828	1.084	0.172
po	0.970	0.973	0.030
po	0.972	0.975	0.028
po	0.972	0.979	0.028
po	0.974	0.975	0.026
po	0.974	0.976	0.026
po	0.974	0.975	0.026
po	0.976	0.976	0.024
po	0.977	0.979	0.023
po	0.978	0.979	0.022
po	0.979	0.980	0.021
po	0.979	0.982	0.021
po	0.981	0.982	0.019
po	0.982	0.982	0.018
po	0.983	0.998	0.017
Po	0.983	0.983	0.017
po	0.983	0.985	0.017
po	0.984	0.987	0.016
Po	0.985	0.990	0.015
po	0.986	0.994	0.014
Po	0.986	0.993	0.014
po	0.986	0.987	0.014
po	0.986	0.987	0.014
po	0.988	0.989	0.012
po	0.989	0.989	0.011
po	0.990	0.992	0.010

po	0.990	0.991	0.010
po	0.990	0.991	0.010
po	0.992	0.993	0.008
Po	0.994	0.996	0.006
po	0.994	0.994	0.006
po	0.995	0.995	0.005
po	0.998	0.999	0.002
po	0.998	0.998	0.002
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pn	0.798	1.129	0.202
pn	0.835	1.109	0.165
Pn	0.788	1.112	0.212
pn	0.763	1.106	0.237
pn	0.784	1.101	0.216
pn	0.760	1.100	0.240
pn	0.792	1.096	0.208
Ni-rich po	0.968	1.022	0.032
Ni-rich po	0.867	1.103	0.133
po	0.999	0.999	0.001
po	0.998	1.002	0.002
po	0.997	0.999	0.003
po	0.996	1.001	0.004
po	0.994	0.996	0.006
po	0.994	0.997	0.006
po	0.994	0.996	0.006
po	0.994	0.996	0.006
po	0.994	0.994	0.006
po	0.992	0.995	0.008
po	0.992	0.998	0.008
po	0.992	0.996	0.008
po	0.992	0.992	0.008
po	0.991	0.991	0.009
po	0.989	0.991	0.011
po	0.989	0.989	0.011
po	0.989	0.992	0.011
po	0.988	0.991	0.012
po	0.988	0.988	0.012
po	0.986	0.990	0.014
po	0.980	0.983	0.020
Po	0.988	0.988	0.012
po	0.972	0.978	0.028

pn	0.834	1.124	0.166
pn	0.791	1.117	0.209
pn	0.807	1.110	0.193
pn	0.781	1.105	0.219
pn	0.782	1.092	0.218
pn	0.779	1.087	0.221
pn	0.800	1.085	0.200
pn	0.784	1.082	0.216
pn	0.811	1.071	0.189
pn	0.783	1.069	0.217
pn	0.759	1.068	0.241
Ni-rich po	0.957	0.984	0.043
po	0.995	0.995	0.005
po	0.992	0.992	0.008
po	0.990	0.990	0.010
po	0.990	0.990	0.010
po	0.989	0.989	0.011
po	0.988	0.988	0.012
po	0.987	0.987	0.013
po	0.987	0.987	0.013
po	0.984	0.986	0.016
po	0.983	0.983	0.017
po	0.983	0.983	0.017
po	0.983	0.983	0.017
po	0.982	0.982	0.018
po	0.982	0.982	0.018
po	0.980	0.980	0.020
po	0.980	0.980	0.020
po	0.979	0.979	0.021
po	0.979	0.980	0.021
po	0.977	0.977	0.023
po	0.977	0.977	0.023
po	0.977	0.977	0.023
po	0.976	0.977	0.024
po	0.976	0.977	0.024
po	0.975	0.975	0.025
po	0.975	0.975	0.025
po	0.974	0.975	0.026
po	0.974	0.974	0.026
po	0.973	0.973	0.027

po	0.973	0.974	0.027
po	0.973	0.973	0.027
po	0.973	0.973	0.027
po	0.972	0.972	0.028
po	0.972	0.972	0.028
po	0.970	0.970	0.030
po	0.970	0.970	0.030
po	0.970	0.970	0.030
po	0.970	0.971	0.030
po	0.970	0.970	0.030

pn	0.783	1.114	0.217
pn	0.803	1.108	0.197
pn	0.809	1.113	0.191
pn	0.793	1.104	0.207
pn	0.792	1.104	0.208
pn	0.778	1.102	0.222
pn	0.754	1.101	0.246
pn	0.809	1.092	0.191
pn	0.769	1.087	0.231

Ni-rich po	0.959	0.998	0.041
Ni-rich po	0.830	1.086	0.170

po	0.995	0.997	0.005
Po	0.989	0.992	0.011
po	0.994	0.998	0.006
po	0.994	0.994	0.006
po	0.994	0.994	0.006
po	0.993	0.993	0.007
po	0.993	0.993	0.007
po	0.993	0.993	0.007
po	0.993	0.993	0.007
po	0.992	0.992	0.008
po	0.989	0.989	0.011
po	0.988	0.988	0.012
po	0.985	0.985	0.015
po	0.983	0.983	0.017
po	0.983	0.983	0.017
po	0.983	0.986	0.017
po	0.983	0.983	0.017
po	0.981	0.981	0.019
po	0.976	0.979	0.024

pn	0.774	1.127	0.226
pn	0.771	1.126	0.229
pn	0.763	1.119	0.237
pn	0.702	1.119	0.298
pn	0.711	1.114	0.289
pn	0.779	1.111	0.221
pn	0.729	1.105	0.271
pn	0.759	1.105	0.241
pn	0.763	1.089	0.237
pn	0.748	1.081	0.252
pn	0.759	1.080	0.241
pn	0.677	1.080	0.323
pn	0.733	1.078	0.267
pn	0.680	1.071	0.320
pn	0.727	1.063	0.273
po	0.998	0.998	0.002
po	0.997	0.997	0.003
po	0.995	0.995	0.005
po	0.994	0.998	0.006
po	1.000	1.003	0.000
po	0.992	0.992	0.008
po	1.000	1.000	0.000
po	0.999	0.999	0.001
po	0.971	0.971	0.029
pn	0.778	1.113	0.222
pn	0.782	1.110	0.218
pn	0.777	1.108	0.223
pn	0.780	1.104	0.220
pn	0.766	1.102	0.234
pn	0.770	1.092	0.230
po	0.984	0.984	0.016
po	0.982	0.982	0.018
po	0.982	0.982	0.018
po	0.988	0.988	0.012
po	0.983	0.985	0.017
po	0.981	0.983	0.019
po	0.979	0.990	0.021
po	0.975	0.977	0.025
po	0.975	0.987	0.025

po	0.982	0.984	0.018
po	0.980	0.983	0.020
po	0.997	1.000	0.003
po	0.995	0.998	0.005
po	0.990	0.993	0.010
po	0.984	0.987	0.016
po	0.992	0.993	0.008
po	0.982	0.985	0.018
po	0.979	0.983	0.021
po	0.982	0.986	0.018
po	0.978	0.981	0.022
po	0.973	0.976	0.027
po	0.980	0.982	0.020

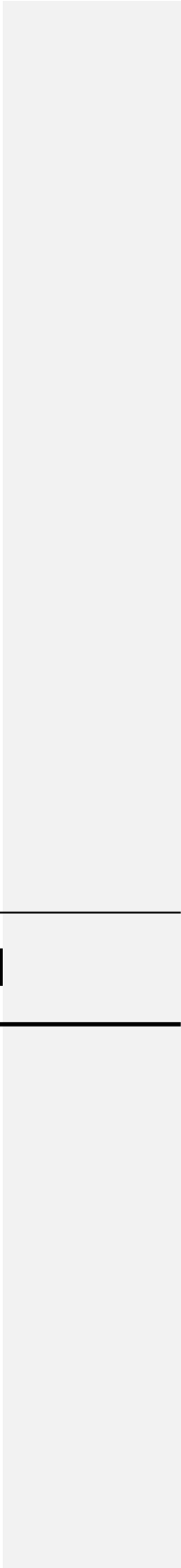
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pn	0.771	1.119	0.229
pn	0.772	1.118	0.228
pn	0.764	1.117	0.236
pn	0.749	1.108	0.251
pn	0.799	1.107	0.201
pn	0.750	1.104	0.250
pn	0.749	1.103	0.251
pn	0.754	1.100	0.246
pn	0.767	1.100	0.233
pn	0.758	1.098	0.242
pn	0.756	1.096	0.244
pn	0.737	1.094	0.263
pn	0.749	1.090	0.251
pn	0.733	1.086	0.267
pn	0.752	1.080	0.248
pn	0.783	1.080	0.217
pn	0.702	1.078	0.298
pn	0.730	1.074	0.270
pn	0.700	1.069	0.300
pn	0.692	1.069	0.308
pn	0.712	1.068	0.288
pn	0.721	1.068	0.279
pn	0.740	1.065	0.260
Pn	0.731	1.121	0.269
pn	0.734	1.064	0.266

Ni-rich po	0.935	1.026	0.065
Ni-rich po	0.905	1.076	0.095

po	0.993	0.993	0.007
po	0.991	0.991	0.009
Po	0.991	0.991	0.009
Po	0.996	0.996	0.004
Po	0.990	0.990	0.010
Po	0.992	0.992	0.008
Po	0.989	0.989	0.011
po	0.990	0.993	0.010
po	0.989	0.989	0.011
po	0.988	0.989	0.012
po	0.986	0.986	0.014
po	0.976	0.976	0.024
po	0.976	0.976	0.024
po	0.975	0.975	0.025
po	0.974	0.975	0.026
po	0.971	0.971	0.029

pn	0.820	1.130	0.180
pn	0.821	1.130	0.179
pn	0.820	1.130	0.180
pn	0.807	1.126	0.193
pn	0.809	1.122	0.191
pn	0.813	1.122	0.187
pn	0.809	1.121	0.191
pn	0.806	1.120	0.194
pn	0.816	1.119	0.184
pn	0.805	1.118	0.195
pn	0.808	1.118	0.192
pn	0.808	1.118	0.192
pn	0.806	1.117	0.194
pn	0.797	1.111	0.203
pn	0.802	1.108	0.198
pn	0.805	1.107	0.195
Pn	0.797	1.136	0.203
Pn	0.800	1.140	0.200
Pn	0.792	1.141	0.208
pn	0.807	1.092	0.193

Ni-rich po	0.978	1.000	0.022
Ni-rich po	0.942	1.032	0.058
Ni-rich po	0.980	1.021	0.020
Ni-rich po	0.978	1.034	0.022



-0.125	0.34	52.92
-0.115	0.36	52.70
-0.112	0.35	52.63
-0.110	0.33	52.60
-0.110	0.37	52.59
-0.109	0.35	52.50
-0.108	0.36	52.55
-0.105	0.36	52.50
-0.102	0.37	52.43
-0.102	0.34	52.42
-0.101	0.36	52.39
-0.100	0.35	52.37
-0.098	0.36	52.31
-0.096	0.35	52.27
-0.094	0.36	52.20

-0.092	0.36	52.19	
-0.091	0.34	52.18	
-0.089	0.37	52.12	
-0.085	0.30	52.03	
-0.085	0.34	52.02	
-0.084	0.37	52.00	
-0.077	0.34	51.85	
-0.075	0.36	51.80	
-0.071	0.34	51.71	
-0.079	0.19	51.84	?
0.011	0.02	49.70	?
-0.158	0.29	53.63	?
-0.093	0.21	52.22	?
-0.062	0.25	51.47	?
-0.117	0.28	52.69	?
-0.084	0.30	52.00	?
0.027	0.00	49.31	troilite
0.025	0.00	49.34	troilite
0.021	0.01	49.44	troilite
0.025	0.00	49.33	troilite
0.024	0.00	49.38	troilite
0.025	0.00	49.34	troilite
0.024	0.00	49.40	troilite
0.021	0.00	49.45	troilite
0.021	0.00	49.44	troilite
0.020	0.00	49.48	troilite
0.018	0.00	49.53	troilite
0.018	0.00	49.52	troilite
0.018	0.00	49.55	troilite
0.002	0.01	49.91	troilite
0.017	0.00	49.57	troilite
0.015	0.00	49.63	troilite
0.013	0.00	49.65	troilite
0.010	0.01	49.76	troilite
0.006	0.01	49.83	troilite
0.007	0.01	49.79	troilite
0.013	0.00	49.65	troilite
0.013	0.00	49.66	troilite
0.011	0.00	49.71	troilite
0.011	0.00	49.73	troilite
0.008	0.00	49.78	troilite

0.009	0.00	49.75	troilite
0.009	0.00	49.75	troilite
0.007	0.00	49.81	troilite
0.004	0.00	49.91	troilite
0.006	0.00	49.86	troilite
0.005	0.00	49.86	troilite
0.001	0.00	49.94	troilite
0.002	0.00	49.95	troilite
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-0.129	0.40	53.01	
-0.109	0.32	52.58	
-0.112	0.39	52.58	
-0.106	0.43	52.53	
-0.101	0.39	52.40	
-0.100	0.43	52.39	
-0.096	0.37	52.28	
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-0.022	0.05	50.49	?
-0.103	0.26	52.35	?
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0.001	0.00	49.98	troilite
-0.002	0.00	50.04	troilite
0.001	0.00	49.98	troilite
-0.001	0.00	50.02	troilite
0.004	0.00	49.90	troilite
0.003	0.00	49.91	troilite
0.004	0.00	49.89	troilite
0.004	0.00	49.85	troilite
0.006	0.00	49.84	troilite
0.005	0.00	49.87	troilite
0.002	0.00	49.93	troilite
0.004	0.00	49.80	troilite
0.008	0.00	49.79	troilite
0.009	0.00	49.79	troilite
0.009	0.00	49.78	troilite
0.011	0.00	49.73	troilite
0.008	0.00	49.81	troilite
0.009	0.00	49.77	troilite
0.012	0.00	49.71	troilite
0.010	0.00	49.75	troilite
0.017	0.00	49.57	troilite
0.012	0.00	49.69	troilite
0.022	0.01	49.45	troilite

-0.124	0.33	52.91	
-0.117	0.40	52.76	
-0.110	0.36	52.58	
-0.105	0.40	52.47	
-0.092	0.38	52.20	
-0.087	0.39	52.07	
-0.085	0.34	51.99	
-0.082	0.36	51.96	
-0.071	0.31	51.66	
-0.069	0.35	51.66	
-0.068	0.38	51.60	
0.016	0.03	49.58	?
0.005	0.00	49.87	troilite
0.008	0.00	49.80	troilite
0.010	0.00	49.75	troilite
0.010	0.00	49.74	troilite
0.011	0.00	49.73	troilite
0.012	0.00	49.69	troilite
0.013	0.00	49.68	troilite
0.013	0.00	49.68	troilite
0.014	0.00	49.60	troilite
0.017	0.00	49.58	troilite
0.017	0.00	49.57	troilite
0.017	0.00	49.56	troilite
0.018	0.00	49.55	troilite
0.018	0.00	49.54	troilite
0.020	0.00	49.50	troilite
0.020	0.00	49.49	troilite
0.021	0.00	49.47	troilite
0.020	0.00	49.47	troilite
0.023	0.00	49.43	troilite
0.023	0.00	49.41	troilite
0.023	0.00	49.41	troilite
0.023	0.00	49.41	troilite
0.023	0.00	49.39	troilite
0.025	0.00	49.36	troilite
0.025	0.00	49.36	troilite
0.025	0.00	49.37	troilite
0.026	0.00	49.34	troilite
0.027	0.00	49.32	troilite

0.026	0.00	49.31	troilite
0.027	0.00	49.31	troilite
0.027	0.00	49.31	troilite
0.028	0.00	49.30	troilite
0.028	0.00	49.29	troilite
0.030	0.00	49.25	troilite
0.030	0.00	49.25	troilite
0.030	0.00	49.24	troilite
0.029	0.00	49.24	troilite
0.030	0.00	49.23	troilite
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-0.108	0.36	52.57	
-0.113	0.36	52.68	
-0.104	0.38	52.48	
-0.104	0.37	52.43	
-0.102	0.37	52.44	
-0.101	0.45	52.41	
-0.092	0.34	52.20	
-0.087	0.40	52.09	
0.002	0.04	49.95	?
-0.086	0.30	52.05	?
0.003	0.00	49.93	troilite
0.008	0.00	49.78	troilite
0.002	0.00	49.95	troilite
0.006	0.00	49.85	troilite
0.006	0.00	49.84	troilite
0.007	0.00	49.83	troilite
0.007	0.00	49.83	troilite
0.007	0.00	49.82	troilite
0.007	0.00	49.82	troilite
0.008	0.00	49.80	troilite
0.011	0.00	49.73	troilite
0.012	0.00	49.70	troilite
0.015	0.00	49.63	troilite
0.017	0.00	49.58	troilite
0.017	0.00	49.58	troilite
0.014	0.00	49.64	troilite
0.017	0.00	49.57	troilite
0.019	0.00	49.51	troilite
0.021	0.00	49.47	troilite

-0.127	0.45	52.98	
-0.126	0.45	52.97	
-0.119	0.46	52.81	
-0.119	0.55	52.80	
-0.114	0.54	52.70	
-0.111	0.41	52.63	
-0.105	0.49	52.49	
-0.105	0.45	52.49	
-0.089	0.40	52.12	
-0.081	0.44	51.94	
-0.080	0.40	51.76	
-0.080	0.57	51.93	
-0.078	0.47	51.87	
-0.071	0.56	51.69	
-0.063	0.45	51.54	
0.002	0.00	49.94	troilite
0.003	0.00	49.93	troilite
0.005	0.00	49.86	troilite
0.002	0.00	49.95	troilite
-0.003	0.00	50.07	troilite
0.008	0.00	49.80	troilite
0.000	0.00	49.99	troilite
0.001	0.00	49.98	troilite
0.029	0.00	49.25	troilite
-0.113	0.37	52.67	
-0.110	0.41	52.61	
-0.108	0.38	52.57	
-0.104	0.41	52.48	
-0.102	0.40	52.42	
-0.092	0.37	52.20	
0.016	0.00	49.60	troilite
0.018	0.00	49.54	troilite
0.018	0.00	49.55	troilite
0.012	0.00	49.69	troilite
0.015	0.00	49.63	troilite
0.017	0.00	49.58	troilite
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0.013	0.00	49.66	troilite

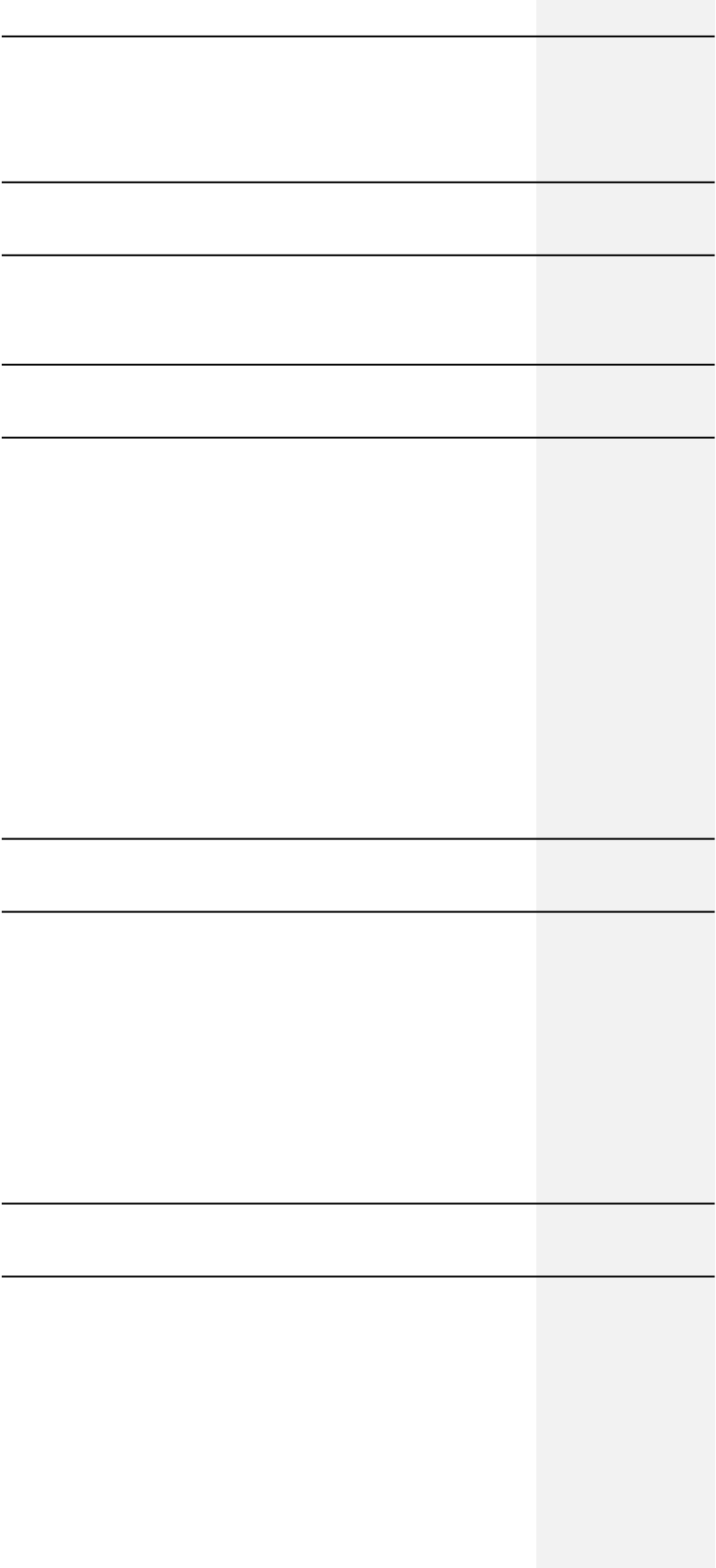
0.016	0.00	49.60	troilite
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0.007	0.00	49.83	troilite
0.013	0.00	49.68	troilite
0.007	0.00	49.83	troilite
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0.017	0.00	49.57	troilite
0.014	0.00	49.64	troilite
0.019	0.00	49.52	troilite
0.024	0.00	49.40	troilite
0.018	0.00	49.54	troilite

-0.125	0.43	52.94	
-0.119	0.43	52.81	
-0.118	0.44	52.78	
-0.117	0.44	52.76	
-0.108	0.46	52.55	
-0.107	0.35	52.54	
-0.104	0.45	52.46	
-0.103	0.45	52.44	
-0.100	0.44	52.38	
-0.100	0.37	52.37	
-0.098	0.45	52.34	
-0.096	0.41	52.30	
-0.094	0.43	52.24	
-0.090	0.45	52.16	
-0.086	0.46	52.05	
-0.080	0.42	51.93	
-0.080	0.36	51.92	
-0.078	0.52	51.87	
-0.074	0.47	51.78	
-0.069	0.51	51.67	
-0.069	0.53	51.66	
-0.068	0.49	51.64	
-0.068	0.43	51.63	
-0.065	0.43	51.58	
-0.121	0.51	52.84	
-0.064	0.43	51.56	
-0.026	0.09	50.64	?
-0.076	0.18	51.82	?

0.007	0.00	49.81	troilite
0.009	0.00	49.76	troilite
0.009	0.00	49.78	troilite
0.004	0.00	49.90	troilite
0.010	0.00	49.75	troilite
0.008	0.00	49.80	troilite
0.011	0.00	49.73	troilite
0.007	0.00	49.82	troilite
0.011	0.00	49.71	troilite
0.011	0.00	49.73	troilite
0.014	0.00	49.64	troilite
0.024	0.00	49.41	troilite
0.024	0.00	49.40	troilite
0.025	0.00	49.38	troilite
0.025	0.00	49.37	troilite
0.029	0.00	49.26	troilite

-0.130	0.35	53.06
-0.130	0.35	53.06
-0.130	0.35	53.06
-0.126	0.37	52.96
-0.122	0.35	52.87
-0.122	0.35	52.87
-0.121	0.37	52.84
-0.120	0.37	52.84
-0.119	0.34	52.80
-0.118	0.37	52.80
-0.118	0.35	52.79
-0.118	0.35	52.78
-0.117	0.37	52.76
-0.111	0.37	52.64
-0.108	0.36	52.56
-0.107	0.35	52.53
-0.136	0.38	53.18
-0.140	0.37	53.28
-0.141	0.39	53.28
-0.092	0.34	52.20

0.000	0.02	50.00	?
-0.032	0.03	50.78	?
-0.021	0.02	50.53	?
-0.034	0.03	50.83	?



Normalized Values		
Ni (at.%)	S (at.%)	Fe (at.%)
13.48802	47.35531	39.15667
13.89395	47.49268	38.61336
13.62634	47.59409	38.77957
12.96828	47.63283	39.39888
14.09955	47.56807	38.33238
13.56185	47.54221	38.89594
13.77143	47.66971	38.55885
13.89476	47.69784	38.40740
14.13569	47.69135	38.17296
13.30622	47.81475	38.87903
13.94462	47.72705	38.32833
13.66459	47.83389	38.50151
13.66442	47.91605	38.41953
13.64393	47.89620	38.45988
13.73764	47.96712	38.29524

13.83456	47.94054	38.22490
13.22538	48.02329	38.75133
14.01561	48.16621	37.81818
12.11743	48.03209	39.85048
13.23520	48.09594	38.66886
13.91248	48.20073	37.88679
13.08819	48.27335	38.63846
13.54242	48.34133	38.11625
13.19266	48.56226	38.24508

8.29649	48.23907	43.46444
0.84345	50.29588	48.86067
11.87198	46.60987	41.51816
9.07960	47.89525	43.02515
10.29207	48.71826	40.98966
11.59974	47.42801	40.97225
11.85019	48.21680	39.93301

0.10871	50.69428	49.19701
0.09815	50.66168	49.24017
0.28853	50.55551	49.15596
0.00000	50.66608	49.33392
0.07598	50.62455	49.29947
0.00000	50.65979	49.34021
0.00000	50.60376	49.39624
0.07411	50.54926	49.37663
0.00000	50.55725	49.44275
0.03793	50.52351	49.43856
0.13371	50.47275	49.39354
0.00000	50.47952	49.52048
0.00000	50.44643	49.55357
0.67634	50.09044	49.23322
0.00000	50.42956	49.57044
0.10465	50.37257	49.52279
0.09939	50.34626	49.55435
0.27548	50.23909	49.48542
0.38783	50.16747	49.44470
0.30509	50.20803	49.48688
0.00000	50.35163	49.64837
0.00000	50.34488	49.65512
0.00000	50.28941	49.71059
0.00000	50.26502	49.73498
0.07982	50.22263	49.69755

0.00000	50.25079	49.74921
0.00000	50.24768	49.75232
0.00000	50.18956	49.81044
0.11659	50.08807	49.79534
0.00000	50.14217	49.85783
0.00000	50.13699	49.86301
0.00000	50.05683	49.94317
0.00000	50.04671	49.95329
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12.62927	47.60690	39.76383
14.64026	47.74626	37.61347
15.81666	47.74149	36.44185
14.47522	47.93503	37.58975
15.73609	47.87562	36.38829
14.02395	47.97370	38.00235
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10.77115	47.80094	41.42791
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0.17376	49.95689	49.86935
0.00000	50.06648	49.93352
0.00000	50.09169	49.90831
0.00000	50.14195	49.85805
0.00000	50.14571	49.85429
0.00000	50.15086	49.84914
0.00000	50.15426	49.84574
0.00000	50.15560	49.84440
0.00000	50.18924	49.81076
0.07972	50.14954	49.77074
0.00000	50.20259	49.79741
0.00000	50.20687	49.79313
0.00000	50.22365	49.77635
0.00000	50.26795	49.73205
0.00000	50.26931	49.73069
0.00000	50.26992	49.73008
0.00000	50.29035	49.70965
0.00000	50.29080	49.70920
0.00000	50.35548	49.64452
0.00000	50.49712	49.50288
0.00000	50.31224	49.68776
0.28074	50.55477	49.16449

13.20526	47.31641	39.47833
15.14210	47.39015	37.46775
13.79888	47.70049	38.50062
15.05334	47.68549	37.26117
14.42102	48.03702	37.54196
14.64643	47.97822	37.37535
13.26567	48.18822	38.54610
13.69880	48.38714	37.91406
12.24031	48.46340	39.29630
13.46550	48.53421	38.00030
14.04789	48.87136	37.08075
1.35590	50.41820	48.22590
0.00000	50.12731	49.87269
0.00000	50.20094	49.79906
0.00000	50.24810	49.75190
0.00000	50.26068	49.73932
0.00000	50.27218	49.72782
0.00000	50.30783	49.69217
0.00000	50.31697	49.68303
0.00000	50.32036	49.67964
0.00000	50.40017	49.59983
0.00000	50.42288	49.57712
0.00000	50.42590	49.57410
0.00000	50.43836	49.56164
0.00000	50.45084	49.54916
0.00000	50.45677	49.54323
0.00000	50.50082	49.49918
0.00000	50.51139	49.48861
0.00000	50.52897	49.47103
0.00000	50.53456	49.46544
0.00000	50.57138	49.42862
0.00000	50.58820	49.41180
0.00000	50.58973	49.41027
0.00000	50.59470	49.40530
0.00000	50.60583	49.39417
0.00000	50.63532	49.36468
0.00000	50.64165	49.35835
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0.00000	50.66178	49.33822
0.00000	50.67852	49.32148

0.00000	50.68602	49.31398
0.00000	50.68964	49.31036
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0.00000	50.70556	49.29444
0.00000	50.75401	49.24599
0.00000	50.75470	49.24530
0.00000	50.75761	49.24239
0.00000	50.75875	49.24125
0.00000	50.76868	49.23132

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13.96451	47.71365	38.32184
13.87639	47.61999	38.50362
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16.27086	47.74645	35.98269
13.19203	47.98278	38.82519
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1.72241	50.17497	48.10262
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0.00000	50.30165	49.69835
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16.27973	47.19976	36.52051
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15.06849	47.72967	37.20183
17.16822	47.90476	34.92702
16.28470	47.58933	36.12597
14.87791	48.28318	36.83892
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0.13284	50.42017	49.44700
0.43777	50.30776	49.25446
0.09936	50.57328	49.32735
0.00000	50.64513	49.35487

0.09069	50.40436	49.50495
0.14063	50.42558	49.43378
0.14897	50.00308	49.84795
0.16051	50.05724	49.78225
0.15715	50.16812	49.67473
0.16056	50.31833	49.52111
0.09366	50.16611	49.74023
0.12579	50.37979	49.49442
0.18133	50.42824	49.39042
0.21340	50.35554	49.43106
0.16632	50.47844	49.35524
0.14098	50.60156	49.25746
0.08472	50.46463	49.45064

15.98634	47.25727	36.75639
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13.78483	48.79599	37.41918
16.12396	47.71008	36.16596
14.96209	48.41861	36.61931
15.47633	48.66209	35.86158
16.23932	47.88140	35.87929
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17.61917	48.39060	33.99024
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17.76157	48.61174	33.62669
16.87839	48.56553	34.55607
15.30092	49.22326	35.47581
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17.73065	47.53580	34.73355
15.54336	48.70481	35.75183
4.27394	49.48194	46.24412
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0.00000	50.19854	49.80146
0.00000	50.26651	49.73349
0.11200	50.18278	49.70522
0.00000	50.28517	49.71483
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0.00000	50.60350	49.39650
0.03759	50.62419	49.33822
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13.62982	47.43756	38.93262
13.60538	47.46487	38.92976
14.02725	47.57105	38.40170
13.64654	47.72886	38.62460
13.56795	47.67273	38.75932
14.05088	47.50851	38.44061
14.15864	47.53123	38.31014
13.29392	47.74413	38.96195
14.20964	47.53546	38.25490
13.60442	47.78466	38.61092
13.66790	47.73872	38.59338
14.08840	47.56155	38.35004
14.07969	47.81711	38.10320
13.91401	47.76146	38.32453
13.53058	47.91792	38.55149
14.29844	47.68586	38.01570
14.27967	47.63241	38.08792
14.72444	47.58374	37.69182
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1.20294	50.88463	47.91243
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1.59589	49.85325	48.55086
3.19807	49.08818	47.71375
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6.79381	49.08050	44.12569
8.21247	48.75576	43.03177
8.78597	48.22624	42.98778
9.24582	48.87788	41.87630
11.55766	48.15190	40.29044
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0.00000	50.27857	49.72143
0.10359	50.01315	49.88326
0.13786	50.01394	49.84820
0.16086	50.09210	49.74704
0.21791	50.06152	49.72057
