

~~Springer~~ - Pyroxenes
Allen

VERIFY OFFSETS

Spectrometer: 1 Crystal: TAP Peak Position: 27737
 Spectrometer: 2 Crystal: PET Peak Position: 38387
 Spectrometer: 3 Crystal: LIF Peak Position: 48083

Spectrometer: 1 peak found at: 27637
 Previously at: 27640 Difference: -3
 Spectrometer: 2 peak found at: 38330
 Previously at: 38324 Difference: 7
 Spectrometer: 3 peak found at: 48146
 Previously at: 48140 Difference: 7

CALIBRATION

Spec.	Element	Position	Peak Counts	Std. Devn.	Background
1	mg	38359	2943	0.25 %	21
3	fe	48126	444	0.53 %	5

CALIBRATION

Spec.	Element	Position	Peak Counts	Std. Devn.	Background
1	si	27647	6200	0.22 %	33
2	ca	38330	1244	0.31 %	9

4ELPX SPRINGER PYROXENES

X

E1	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
mg	246.421	13.867	0.0796	1.74	2.89
si	4401.407	33.069	0.7083	17.21	36.81
ca	85.014	11.467	0.0596	0.64	0.89
fe	1147.059	8.433	2.5906	29.70	38.21
					78.80

4ELPX

X

E1	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
mg	3643.390	24.301	1.2383	19.45	32.25
si	6809.082	33.002	1.0988	26.77	57.28
ca	47.238	7.233	0.0324	0.37	0.51
fe	325.178	5.200	0.7280	8.73	11.22
					101.26

4ELPX

1

E1	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
mg	3557.060	21.101	1.2099	19.09	31.66
si	6754.565	33.536	1.0898	26.54	56.77
ca	56.106	7.357	0.0395	0.45	0.63
fe	335.625	5.033	0.7522	9.01	11.59
					100.65

4ELPX

E1	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
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mg	312.833	23.234	1.2214	19.24	31.91
si	6260.109	34.036	1.0096	24.77	52.99
ca	49.172	7.067	0.0341	0.39	0.54
fe	322.641	5.200	0.7223	8.65	11.13

96.57

4ELPX

	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
E1					
mg	3613.764	22.368	1.2288	19.29	31.98
si	6731.215	35.903	1.0857	26.47	56.63
ca	32.835	7.967	0.0201	0.23	0.32
fe	321.306	4.933	0.7198	8.63	11.10

2

100.03

4ELPX

	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
E1					
mg	3534.645	21.334	1.2021	18.93	31.39
si	6569.497	36.169	1.0594	25.84	55.28
ca	55.106	7.667	0.0384	0.44	0.61
fe	324.711	6.133	0.7248	8.68	11.17

X

98.45

4ELPX

	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
E1					
mg	3592.934	22.534	1.2217	19.26	31.93
si	6514.417	35.036	1.0507	25.69	54.95
ca	55.139	7.833	0.0383	0.43	0.61
fe	329.183	5.033	0.7375	8.83	11.36

3

98.86

4ELPX

	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
E1					
mg	3597.465	24.035	1.2227	19.27	31.96
si	6540.758	34.036	1.0551	25.79	55.17
ca	49.005	8.467	0.0328	0.37	0.52
fe	330.218	5.133	0.7396	8.86	11.40

X

99.05

4ELPX

	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
E1					
mg	3603.180	23.034	1.2250	19.28	31.98
si	6596.049	33.902	1.0641	25.99	55.60
ca	46.371	7.800	0.0312	0.35	0.50
fe	326.880	4.833	0.7327	8.78	11.29

5

99.36

4ELPX

	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
E1					
mg	3565.546	22.868	1.2122	19.11	31.69
si	6551.843	36.469	1.0565	25.80	55.20
ca	47.471	7.800	0.0321	0.36	0.51
fe	330.585	5.933	0.7387	8.85	11.38

6

98.78

4ELPX

	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
E1					
mg	3546.613	22.501	1.2058	19.06	31.60
si	6409.832	34.803	1.0337	25.29	54.11
ca	50.005	8.133	0.0339	0.38	0.54

X

fe 334.190 5.300 0.7483 8.96 11.53

87.78

Alloy

4ELPX

X

El	Peak	B.G.	Ix/Istd	Wt% El	Wt% Ox
mg	3583.669	22.768	1.2184	19.23	31.89
si	6158.874	35.269	0.9930	24.40	52.19
ca	57.207	7.467	0.0403	0.46	0.64
fe	325.312	4.867	0.7291	8.73	11.23

95.95

4ELPX

X

El	Peak	B.G.	Ix/Istd	Wt% El	Wt% Ox
mg	3566.493	21.201	1.2131	19.16	31.77
si	6342.616	36.369	1.0226	25.05	53.59
ca	56.606	6.933	0.0402	0.46	0.64
fe	330.518	4.800	0.7411	8.87	11.42

97.42

4ELPX

X

El	Peak	B.G.	Ix/Istd	Wt% El	Wt% Ox
mg	3637.911	21.968	1.2372	19.47	32.29
si	6495.022	32.902	1.0479	25.66	54.89
ca	31.102	7.133	0.0194	0.22	0.31
fe	326.546	4.067	0.7337	8.79	11.31

98.79

4ELPX

7

El	Peak	B.G.	Ix/Istd	Wt% El	Wt% Ox
mg	3625.668	21.201	1.2333	19.40	32.17
si	6528.819	36.136	1.0528	25.75	55.09
ca	41.337	7.200	0.0276	0.31	0.44
fe	324.711	5.167	0.7270	8.71	11.21

98.90

4ELPX

8

El	Peak	B.G.	Ix/Istd	Wt% El	Wt% Ox
mg	3607.035	22.368	1.2265	19.33	32.05
si	6613.570	35.803	1.0666	26.06	55.74
ca	43.470	7.300	0.0293	0.33	0.47
fe	331.420	5.033	0.7426	8.90	11.44

99.70

4ELPX

9

El	Peak	B.G.	Ix/Istd	Wt% El	Wt% Ox
mg	3596.417	21.468	1.2232	19.24	31.91
si	6612.886	35.536	1.0665	26.04	55.70
ca	47.271	7.933	0.0319	0.36	0.51
fe	324.911	4.800	0.7283	8.73	11.23

99.34

4ELPX

10

El	Peak	B.G.	Ix/Istd	Wt% El	Wt% Ox
mg	3559.258	23.301	1.2099	19.05	31.59
si	6685.444	35.003	1.0784	26.27	56.19
ca	71.777	6.967	0.0525	0.60	0.83
fe	326.146	5.333	0.7299	8.75	11.25

99.87

11

	E1	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
	mg	3473.734	23.535	1.1805	18.64	30.91
	si	6636.944	36.503	1.0703	26.01	55.64
	ca	141.473	7.967	0.1081	1.23	1.72
	fe	324.577	4.500	0.7283	8.73	11.23
						99.49

12

	E1	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
	mg	3625.973	22.868	1.2329	19.38	32.13
	si	6688.559	34.436	1.0790	26.32	56.31
	ca	58.640	7.500	0.0414	0.47	0.66
	fe	323.976	4.700	0.7264	8.70	11.20
						100.30

13

	E1	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
	mg	3621.441	23.635	1.2310	19.37	32.12
	si	6739.843	33.769	1.0874	26.52	56.72
	ca	50.405	7.567	0.0347	0.39	0.55
	fe	328.149	4.133	0.7372	8.83	11.36
						100.76

X

	E1	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
	mg	3636.930	22.768	1.2366	19.50	32.34
	si	6800.006	36.436	1.0967	26.75	57.22
	ca	49.272	7.733	0.0336	0.38	0.53
	fe	339.564	4.933	0.7614	9.12	11.73
						101.82

14

	E1	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
	mg	3636.863	21.401	1.2371	19.40	32.17
	si	6778.569	32.969	1.0938	26.66	57.03
	ca	45.504	7.567	0.0307	0.35	0.49
	fe	319.905	5.100	0.7163	8.59	11.04
						100.73

15

	E1	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
	mg	3691.353	22.168	1.2555	19.92	33.02
	si	6335.130	33.969	1.0218	25.14	53.77
	ca	40.003	7.367	0.0264	0.30	0.42
	fe	352.582	4.400	0.7922	9.48	12.20
						99.41

16

	E1	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
	mg	3644.472	22.201	1.2394	19.52	32.36
	si	6678.016	35.136	1.0772	26.31	56.28
	ca	45.171	7.433	0.0306	0.36	0.49
	fe	331.553	4.633	0.7438	8.91	11.46
						100.59

	E1	Peak	B.G.	Ix/Istd	Wt% E1	Wt% Ox
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mg	386.738	29.034	1.2192	19.13	31.72
si	5639.168	35.736	1.0708	26.09	55.81
ca	88.916	6.833	0.0665	0.75	1.06
fe	312.695	4.867	0.7004	8.40	10.80

4ELPX 99.39

El	Peak	B.G.	Ix/Istd	Wt% El	Wt% Ox
mg	3563.314	22.134	1.2117	19.10	31.67
si	6648.443	33.002	1.0727	26.16	55.96
ca	50.038	7.767	0.0342	0.39	0.54
fe	330.351	4.733	0.7409	8.87	11.42

4ELPX 99.60

El	Peak	B.G.	Ix/Istd	Wt% El	Wt% Ox
mg	3590.736	23.835	1.2205	19.23	31.88
si	6683.151	36.136	1.0778	26.29	56.23
ca	56.506	7.533	0.0397	0.45	0.63
fe	330.351	5.167	0.7399	8.86	11.40

4ELPX 100.15

El	Peak	B.G.	Ix/Istd	Wt% El	Wt% Ox
mg	3604.634	22.768	1.2256	19.28	31.98
si	6576.819	36.003	1.0606	25.91	55.43
ca	42.937	6.900	0.0292	0.33	0.46
fe	325.211	4.833	0.7289	8.73	11.23

4ELPX 99.11

El	Peak	B.G.	Ix/Istd	Wt% El	Wt% Ox
mg	3625.849	23.807	1.2283	19.33	32.08
si	6579.519	36.176	1.0657	25.97	55.48
ca	41.337	7.000	0.0291	0.33	0.46
fe	324.711	5.167	0.7279	8.71	11.21

4ELPX 99.32

El	Peak	B.G.	Ix/Istd	Wt% El	Wt% Ox
mg	3607.435	23.388	1.2268	19.31	32.03
si	6573.578	36.004	1.0606	25.91	55.43
ca	41.478	7.000	0.0292	0.33	0.46
fe	327.711	5.167	0.7458	8.80	11.41

4ELPX 99.78

El	Peak	B.G.	Ix/Istd	Wt% El	Wt% Ox
mg	3607.435	23.388	1.2268	19.31	32.03
si	6573.578	36.004	1.0606	25.91	55.43
ca	41.478	7.000	0.0292	0.33	0.46
fe	327.711	5.167	0.7299	8.73	11.23

4ELPX 99.32

El	Peak	B.G.	Ix/Istd	Wt% El	Wt% Ox
mg	3571.578	23.388	1.2268	19.31	32.03
si	6573.578	36.004	1.0606	25.91	55.43
ca	41.478	7.000	0.0292	0.33	0.46
fe	327.711	5.167	0.7299	8.73	11.23