Amptek, Inc XRF Analysis Report

File: C:\CrossRoads Scientific\SIR-FP Tutorial\FP Files\UnknownRock_FP-SIR_FixedZ.tfr
1:26:10 PM 11-Sep-13

Comment line

Layer Table ==========

#	Thick	Type	Error	Units	Density	Norm.	Total
1	0.00	Bulk	0.00	mg/cm2	0.00	On	100.00

Sample Table ==========

Layer	Component	Type	Concn.	Error	Units	Mole%	Error
1	Ba	Calc	770.60	113.255	ppm	0.022	0.003
1	Cu	Calc	183.80	4.619	ppm	0.011	0.000
1	Ni	Calc	80.914	10.585	ppm	0.005	0.001
1	Rb	Calc	143.77	8.365	ppm	0.007	0.000
1	Sr	Calc	174.08	8.852	ppm	0.008	0.000
1	V	Calc	214.97	25.633	ppm	0.016	0.002
1	Zr	Calc	131.05	8.226	ppm	0.006	0.000
1	P2O5	Calc	0.362	0.477	wt.%	0.099	0.131
1	SiO2	Calc	46.617	0.733	wt.%	30.264	0.476
1	TiO2	Calc	0.835	0.018	wt.%	0.408	0.009
1	Al2O3	Calc	20.535	0.706	wt.%	7.856	0.270
1	Fe2O3	Calc	9.487	0.035	wt.%	2.317	0.009
1	CaO	Calc	2.883	0.048	wt.%	2.005	0.033
1	MgO	Calc	2.545	1.737	wt.%	2.463	1.681
1	K2O	Calc	3.372	0.054	wt.%	1.396	0.022
1	MnO	Calc	0.147	0.006	wt.%	0.081	0.003
1	S	Calc	0.699	0.041	wt.%	0.851	0.050
1	H	SIRFP	0.496	0.000	wt.%	19.177	0.000
1	N	SIRFP	11.853	0.000	wt.%	33.008	0.000

Element Table ==========

Elmt	Line Code	Cond Code	Ratio Method	Intensity (c/s)	Error (c/s)	Intensity Method	Conc.	Conc Method	Calibration Coefficient
C	Ka	0	None	0.000	0.0000	Gaussian	0.000	None	0.000
N	Ka	0	None	0.000	0.0000	Gaussian	11.853	None	0.000
O	Ka	0	None	0.000	0.0000	Gaussian	40.321	None	0.000
Mg	Ka	1	None	1.764	0.8510	Gaussian	1.535	SIRFP	103165.600
Al	Ka	1	None	104.382	2.5362	Gaussian	10.868	SIRFP	110895.900
Si	Ka	1	None	352.441	3.9165	Gaussian	21.791	SIRFP	51502.760
P	Ka	1	None	1.196	1.1151	Gaussian	0.158	SIRFP	11425.760
S	Ka	1	None	43.529	1.8118	Gaussian	0.699	SIRFP	36835.940
K	Ka	1	None	507.708	5.7542	Gaussian	2.799	SIRFP	56506.680
Ca	Ka	1	None	452.836	5.2860	Gaussian	2.060	SIRFP	43951.510
Ti	Ka	1	None	209.188	3.2137	Gaussian	0.501	SIRFP	36405.970
V	Ka	1	None	18.382	1.5499	Gaussian	0.021	SIRFP	51971.480
Mn	Ka	1	None	99.339	2.7048	Gaussian	0.114	SIRFP	32470.720
Fe	Ka	1	None	6733.831	17.7701	Gaussian	6.636	SIRFP	30515.300
Ni	Ka	1	None	24.885	2.3018	Gaussian	0.008	SIRFP	83404.870
Cu	Ka	1	None	93.348	2.3460	Gaussian	0.018	SIRFP	0.000
Rb	Ka	1	None	51.767	2.1297	Gaussian	0.014	SIRFP	45275.890
Sr	Ka	1	None	62.071	2.2318	Gaussian	0.017	SIRFP	47553.230
Zr	Ka	1	None	45.356	2.0131	Gaussian	0.013	SIRFP	49012.100
Ba	Ka	1	None	17.754	1.8450	Gaussian	0.077	SIRFP	3552374.000

Analysis Conditions ==========

#	Targ	Filter	Thick. mg/cm2	kV	uA	---Detector--- Type	Filter	Thick. mg/cm2	Atmos	Preset Time(s)	Actual Time(s)
1	Ag	None	0.00	40.0	25.0	Si drift	None	0.0	Air	300.0	198.8

Processing Conditions ==========

#	No. Smths	Escape Peaks	Sum Peaks	Back Type	C/R Ratio	Blank Rem.	----Blank---- ----File-----
1	2	Yes	Yes	Auto	Yes	No	

Compton/Rayleigh Results ==========

#	Compton (c/s)	---ROI(keV)--- Low	High	Rayleigh (c/s)	---ROI(keV)--- Low	High
1	263.25	20.220	21.720	96.45	21.720	22.500