Amptek, Inc XRF Analysis Report

File: C:\CrossRoads Scientific\SIR-FP Tutorial\FP Files\UnknownRock_FP-SIR_AutoZ.tfr
1:38:45 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	795.11	116.858	ppm	0.030	0.004
1	Cu	Calc	189.61	4.765	ppm	0.016	0.000
1	Ni	Calc	83.469	10.919	ppm	0.007	0.001
1	Rb	Calc	148.32	8.630	ppm	0.009	0.001
1	Sr	Calc	179.60	9.133	ppm	0.011	0.001
1	V	Calc	221.74	26.440	ppm	0.023	0.003
1	Zr	Calc	135.21	8.487	ppm	0.008	0.000
1	P2O5	Calc	0.373	0.492	wt.%	0.138	0.182
1	SiO2	Calc	48.033	0.755	wt.%	42.057	0.661
1	TiO2	Calc	0.862	0.019	wt.%	0.568	0.012
1	Al2O3	Calc	21.174	0.728	wt.%	10.925	0.375
1	Fe2O3	Calc	9.787	0.037	wt.%	3.224	0.012
1	CaO	Calc	2.974	0.049	wt.%	2.790	0.046
1	MgO	Calc	2.622	1.789	wt.%	3.422	2.335
1	K2O	Calc	3.478	0.056	wt.%	1.942	0.031
1	MnO	Calc	0.151	0.006	wt.%	0.112	0.004
1	S	Calc	0.721	0.042	wt.%	1.183	0.070
1	N	SIRFP	3.851	0.000	wt.%	14.466	0.000
1	O	SIRFP	5.799	0.000	wt.%	19.069	0.000

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

Elmt	Line Code	Cond Code	Ratio Method	Intensity (c/s)	Error (c/s)	Intensity Method	Conc.	Conc Method	Calibration Coefficient
O	Ka	0	None	0.000	0.0000	Gaussian	41.558	None	0.000
Mg	Ka	1	None	1.764	0.8510	Gaussian	1.581	SIRFP	103165.600
Al	Ka	1	None	104.382	2.5362	Gaussian	11.207	SIRFP	110895.900
Si	Ka	1	None	352.441	3.9165	Gaussian	22.453	SIRFP	51502.760
P	Ka	1	None	1.196	1.1151	Gaussian	0.163	SIRFP	11425.760
S	Ka	1	None	43.529	1.8118	Gaussian	0.721	SIRFP	36835.940
K	Ka	1	None	507.708	5.7542	Gaussian	2.887	SIRFP	56506.680
Ca	Ka	1	None	452.836	5.2860	Gaussian	2.125	SIRFP	43951.510
Ti	Ka	1	None	209.188	3.2137	Gaussian	0.517	SIRFP	36405.970
V	Ka	1	None	18.382	1.5499	Gaussian	0.022	SIRFP	51971.480
Mn	Ka	1	None	99.339	2.7048	Gaussian	0.117	SIRFP	32470.720
Fe	Ka	1	None	6733.831	17.7701	Gaussian	6.845	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	0.019	SIRFP	0.000
Rb	Ka	1	None	51.767	2.1297	Gaussian	0.015	SIRFP	45275.890
Sr	Ka	1	None	62.071	2.2318	Gaussian	0.018	SIRFP	47553.230
Zr	Ka	1	None	45.356	2.0131	Gaussian	0.014	SIRFP	49012.100
Ba	Ka	1	None	17.754	1.8450	Gaussian	0.080	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