

Pepita - output of results

Part one: files, selection of timeslices and rejection

***** PEPITA - Export of processed Laser-ICP-MS data			
***** Part One - Files and selection			
Date:	9 Jun. 2005		
Data File:	rja-1.csv		
Standard Composition File:	tw-59.stc		
Standard Measurement File:	tw-59-2004-12-19-1.stm		
Blank File:	2004-12-19-a.blk		
Dwell time - uniform [msec]:	20		
Internal. Std. conc. / error [ppm]:	La	126	25
Isotopes measured / calculated:	33	33	
Time slices all / selected:	100	42	
Selected from / until:	22	63	
Rejection:	All data considered		
Rejected data / percentage:	0	0	

alternatives:

rejection was performed by manual selection, by Grubbs test at P=5% and data points having more than 3 standard deviation were also rejected

Blank from Data File, time slices from / to:	85	98		
Dwell Time File:	dwell-usual-01.dwe			
Internal. Std. conc. / error [ppm]:	Nb	126	25	
Isotopes measured / calculated:	35	34		
Time slices all / selected:	100	32		
Selected from / until:	19	50		
Rejection:	Manual	P(Grubbs) > 5	S.D. > 3	
Rejected data / percentage:	4	0.4		

0.4 % of all data was rejected

Part two: main concentrations

***** Part Two - Mean concentrations										
		[ppm]	[ppm]	[ppm]	[ppm]	[%]		[cps]	[cps]	
Data File:		rja-1.csv								
Isotope	Element	Conc.	S. D.	S. E.	Lim. of Det.	Rel. Err.	R2 iso/IS	Av. counts	BLK counts	Time slices
Sc45	Sc	52.34	24.59	4.42	0.48	47	0.03	3.94	0.44	31
V51	V	332.99	48.82	8.77	4.094	15	0.35	36.71	5.37	31
Cr53	Cr	---	---	---	0.48	---	0.08	3.94	0	30
Mn55	Mn	3802.27	388.08	69.7	0.639	10	0.45	538.07	1.12	31

concentration was not calculated because this isotope is not present in the Standard Measurement or Standard Composition or Blank File

correlation coefficient between blank corrected cps of the isotope and the internal standard

average cps

blank

Part three and Part four: concentrations and errors in time slices

***** Part Three - Concentrations in time slices [ppm]					
Isotope	Element	t18	t19	t20	t21
Sc45	Sc	48.93	29.91	54.18	86.31
V51	V	387.72	XX	278.37	349.95
Cr53	Cr	1100.7	1507.87	1569.93	1340.42
Mn55	Mn	3457.74	3988.26	XX	3375.83

***** Part Four - Errors of concentrations in time slices [ppm]					
Isotope	Element	t18	t19	t20	t21
Sc45	Sc	28.67	21.46	31.78	43.75
V51	V	106.81	XX	82.13	98.86
Cr53	Cr	448.81	593.82	616.52	535.35
Mn55	Mn	795.86	923.27	XX	781.89



concentration and error are not calculated for this isotope in this time slice, due to rejection

Part five: warning in case if incompatible files

***** Part Five - Log of incomplete data sets	
Isotopes are missing in the Standard Composition File:	Ca43, Ti47, Ti49, Cu63, Cu65
Isotopes are missing in the Standard Measurement File:	Li6, B10, Na23
Isotopes are missing in the Blank File:	Cs133, Eu153, Gd156