Supplementary file 1 - Summary of the age data of each unit.

Major Geotectonic Units	Units	Sub-Domain	Lithology/Name	Crystalization Age (Ma)	Metamorfic Age (Ma)	Maximum age of deposition (Ma)	Age distribution (Ma)	Method	Reference
Camaquã Basin	Guaritas Group	Varzinha Formation	Sandstone (illite)			473.7 ± 9.4		K-Ar in authigenic illite	Maraschin et al. (2010)
			Sandstone			535 ± 10	535 to 2766	SHIRIMP: U-Pb in zircon	Hartmann et al. (2008b)
		Pedra Pintada Formation	Sandstone			551.9 ± 8.9 for detrital zircon. Authors consider as 547 ± 6.3 (andesite)	565 to 2812	LA-MC-ICP-MS: U-Pb in zircon	Oliveira et al. (2014)
		Rodeio Velho Formation	Andesite	547 ± 6.3				LA-ICPMS-MC: U-Pb in zircon	Almeida et al. (2012)
	Santa Bárbara Group	Upper Acampamento Velho Formation	Rhyolite	553 ± 5.4				LA-ICPMS-MC: U-Pb in zircon	Almeida et al. (2012)
			Rhyolite	549.3 ± 5				SHIRIMP: U-Pb in zircon	Sommer et al. (2005)
		Bom Jardim Window	Conglomerate and sandstone			566 ± 7	564 to 2962	LA-MC-ICP-MS: U-Pb in zircon	Bicca et al. (2013)
		Sequence lll	Conglomerate			553 ± 22	535 to 2824	LA-MC-ICP-MS: U-Pb in zircon	Oliveira et al. (2014)
		Sequence ll	Conglomerate and sandstone			562.5 ± 5.5	553 ± 30.9 to 3389 ± 189		
		Sequence I	Conglomerate			567.9 ± 5.9	556 ± 24.1 to 2760 ± 160		
		Lower Acampamento Velho Formation	Rhyolite	574 ± 7				TIMS: U-Pb in zircon	Janikian et al. (2008)
			Rhyolite	573 ± 18				LA-ICP-MS: U-Pb in zircon	Chemale et al. (2000)
	Bom Jardim Group	Picada das Graças Formation	Tuff	580 ± 3.6 Ma				SHIRIMP: U-Pb in zircon	Janikian et al. (2008)
		Hilário Formation	Lamprophyre intrusion	591.8 ± 3				LA-ICPMS-MC: U-Pb in zircon	Almeida et al. (2012)
			Lapilli tuf	590.5 ± 5.7				TIMS: U-Pb in zircon	Janikian et al. (2008)
			Andesite	593 ± 6				SHIRIMP: U-Pb in zircon	Remus et al. (1999)
	Maricá Group	São Rafael Formation	Sandstone			601 ± 13	601 ± 13 to 2611 ± 97	MC-ICP-MS: U-Pb in zircon	Almeida et al. (2012)
		Passo da Promessa Formation	Rhyolite Clast	630.2 ± 3.4				SHIRIMP: U-Pb in zircon	Borba et al. (2008)
Pelotas Batholith	Itapuã Suite		Rhyolite	581.9 ± 1.9				LA-ICP-MS: U-Pb in zircon	Oliveira et al. (2015)
			Santana Granite	600 ± 3				SHIRIMP: U-Pb in zircon	Koester et al. (2001a)
	Dom Feliciano Suite		Capão do Leão Granite	583±3				SHIRIMP: U-Pb in zircon	Philipp et al. (2002)
	Encruzilhada do Sul Suite		Encruzilhada do Sul Granite	595 ± 8				LA-ICP-MS: U-Pb in zircon	Philipp et al. (2016a)
			Granite	595 ± 4				TIMS: U-Pb in zircon	Babinski et al. (1997)
	Piquiri Suite		Piquiri Syenite	611 ± 3				TIMS: Pb-Pb in zircon	Philipp et al. (2002)
			Arroio do Silva Syenite	612 ± 3					
	Viamão Suite		Arroio do Moinho Granite	595 ± 1				TIMS: U-Pb in zircon	Babinski et al. (1997)
			Viamão Granite	630 ± 6				LA-ICP-MS: U-Pb in zircon	Philipp et al. (2016a)
			Barão do Triunfo Granite	627 ± 16				LA-ICP-MS: U-Pb in zircon	Philipp et al. (2016a)
	Pinheiro Machado Complex		Granodiorite	609 ± 17				SHIRIMP: U-Pb in zircon	Silva et al. (1999)
			Granodiorite gneiss	623 ± 2				TIMS: U-Pb in zircon	Babinski et al. (1997)
			Piratini Gneiss	781 ± 5				SHIRIMP: U-Pb in zircon	Silva et al. (1999)
	Cordilheira Suite		Cordilheira Granite	625 ± 6				SHIRIMP: U-Pb in zircon	Frantz et al. (2003)
			Granito Figueiras Granite	605 ± 8					

			Francisquinho Granite	634 ± 6					
			Chácara das Pedras Gneiss	777 ± 4				SHIRIMP: U-Pb in zircon	Koester et al. (2016)
Encruzilhada Block	Várzea do Capivarita Complex		Orthogneiss	788 ± 5.3	648.4 ± 5.4			SHIRIMP: U-Pb in zircon	Martil, 2016
			Orthogneiss	782 ± 9.7	650 ± 22				
			Pelitic gneisses		618 ± 7.3	728 ± 11	728 ± 11 to 2497.3 ± 6.9	SHIRIMP: U-Pb in zircon	Gruber et al. (2017)
	Capivarita Meta-anorthosite		Meta-anorthosite	1573 ± 21	606 ± 6			LA-ICP-MS: U-Pb in zircon	Chemale et al. (2011)
			Metagabbro	1530 ± 33	652 ± 9				
					597 ± 6				
	Arroio dos Ratos Complex		Metatonalite	2148 ± 33				LA-ICP-MS: U-Pb in zircon	Gregory et al. (2015)
			Metatonalite	2150 ± 28					
			Metatonalite	2136 ± 27					
			Metatonalite	2099 ± 10					
			Granodioritic gneiss	2081 ± 7					
			Granodioritic gneiss	2077 ± 13	635 ± 6				
Tijucas Terrane	Porongos Complex		Metasedimentary			570-650	550 to 2424	SHIRIMP: U-Pb in zircon	Pertile et al. (2017)
			Quartz-muscovite schist				751 to 2251		
			Quartzite				1045 to 1997		
			Schists				576 to 2490		
			Riodacite	773 ± 3.4					
			Riodacite	801 ± 4.7					
			Riodacite	809 ± 4.1					
	Tupi Silveira Amphibolite		Gt-Diop-Hb gneiss	1567 ± 21	643 ± 3			LA-ICP-MS: U-Pb in zircon	Camozzato et al. (2013a, b)
	Seival Metagranite		Granodiorite	1785 ± 42				LA-ICP-MS: U-Pb in zircon	Camozzato et al. (2013a, b)
			Monzogranite	1768 ± 24					
			Granodiorite	1764 ± 29					
			Monzogranite	1763 ± 28					
	Vigia Complex		Granitic gneiss	2056 ± 38				LA-ICP-MS: U-Pb in zircon	Camozzato et al. (2017)
			Dioritic gneiss	2008 ± 52					
	Santana Formation		Coxilha do Raio Quartizite			1700-2030	1980 ± 34 to 2506 ± 38	LA-ICP-MS: U-Pb in zircon	Pertile et al. (2015)
			Godinho Quartizite				1766 ± 40 to 3384 ± 24		
	Encantadas Complex		tonalitic gneiss	2263 ± 18	2045 ± 10			SHIRIMP: U-Pb in zircon	Hartmann et al. (2000)
			pegmatite	2263 ± 6	2021 ± 11				
			Granodiorite	2078 ± 13	631 ± 6				
			Metahornblendite	2257 ± 12	1989 ± 21 702 ± 21				Hartmann et al. (2003)
			Tonalitic gneiss	2234 ± 28				LA-ICP-MS: U-Pb in zircon	Saalmann et al. (2011)
			Tonalitic gneiss	2112 ± 22				LA-ICP-MS: U-Pb in zircon	Camozzato et al. (2013a, b)
			Augen gneiss	2153 ± 20	643 ± 3				
			Tonalitic gneiss	2340 ± 19	875 ± 160			LA-ICP-MS: U-Pb in zircon	Lusa et al. (2017)
			Metamonzogranite	2211 ± 17					
			Metasienogranite	2210 ± 16					
			Granodiritic gneiss	2404 ± 23	679 ± 49			LA-ICP-MS: U-Pb in zircon	Camozzato et al. (2017)
			Granitic gneiss	2231 ± 19				LA-ICP-MS: U-Pb in zircon	Camozzato et al. (2017)
			Gneiss Encantadas	2263 ± 18				LA-ICP-MS: U-Pb in zircon	Chemale Jr. (2000)
São Gabriel Terrane	Ponta do Salso Complex		Meta-arkose			685 ± 18	684 to 897	LA-ICP-MS: U-Pb in zircon	Vedana et al. (2017)
			Phyllite				709 to 793		
	Passo Feio Complex	Youngest Basin	Schist			774	803 ± 43 to 3054 ± 10	LA-ICP-MS: U-Pb in zircon	Remus et al. (2000); Lopes et al. (2015)

		Oldest Basin	Phylites			1104	1104 ± 7 to 3377 ± 8	LA-ICP-MS: U-Pb in zircon	Lopes et al. (2015)
	Cambaizinho Complex		grd-bt-gneiss			650	575 ± 52 to 864 ± 72	LA-ICP-MS: U-Pb in zircon	Lena et al. (2014)
			ky-bt-hbl-act-gneiss				595 ± 26 to 811 ± 32		
			Zt-act-hbl-ept-gneiss				607 ± 25 to 863 ± 53		
			Grd-act-hbl-gneiss				693 ± 35 to 803 ± 42		
	Cambaí Complex	Sanga do Jobim Suite	Sanga do Jobim Tonalite	680 ± 2				SHIRIMP: U-Pb in zircon	Hartmann et al. (2011)
			Cerca da Pedra Granodiorite	682 ± 1					
			Sanga do Jobim Granodiorite	673.9 ± 6.8 698.9 ± 4.2				LA-ICP-MS: U-Pb in zircon	Cerva-Alves et al. (2020)
		Lagoa da Meia-Lua Suite	Tonalites	690 ± 2 703 ± 7				SHIRIMP: U-Pb in zircon	Hartmann et al. (2011)
			Trondjemite	694 ± 5					
			Santa Zélia Granite	704 ± 3 Ma					
		Vila Nova Gneiss	Ortogneiss	718 ± 2 735 ± 7					
	Cambaizinho Ophiolie		Clorite-tremolite schist		787.6 ± 2.6			LA-ICP-MS: U-Pb in rutile	Cerva-Alves et al. (2020)
	Cerro Mantiqueira Ophiolite		Albitite	923.2 ± 3	786 ± 13			SHIRIMP: U-Pb in zircon	Arena et al. (2016)
	Ibaré Ophiolite		Albitite	892.4 ± 2.8					
	Bossoroca Ophiolite		Tourmalinite	920.4 ± 9.8				LA-ICP-MS: U-Pb in zircon	Hartmann et al. (2019)
Taquarembó Terrane	Bagé Supersuite	Santo Afonso Suite	Biotite granite	624.8 ±7.1				SHIRIMP: U-Pb in zircon	Camozzato et al. (2018)
	São Sebastião Supersuite	Cerro Preto Suite	Dioritie	590.8 ±3.6					
			Granite	588.6 ±1.5					
		Vauthier Suite		597±6				LA-ICP-MS: U-Pb in zircon	Laux et al. (2017)
			Santo Antonio Monzogranite	640±52				Rb-Sr	Barros and Nardi (1992)
			Santa Rita Monzogranite	646±52				Rb-Sr	Naumann (1984)
	Saibro Suite		Jaguari granite	567±4				Pb-Pb	Gastal et al. (2005)
				537±10				Rb-Sr	Gastal and Lafon (1998)
				541±42				Rb-Sr	Soliani Júnior (1986)
			Saibro granite	557±9				Rb-Sr	
	Cerro Batovi Metamorphic Complex		Volcanoclastic rock	1764±33				LA-ICP-MS: U-Pb in zircon	Laux et. al. (2010b)
	Santa Maria Chico Granulitic Complex		Mafic Granulite	2509±13	2022±18			SHIRIMP: U-Pb in zircon	Hartmann et al. (1999)
			Trondhjemite	2553±9	2031±40				
			granodiorite gneiss	2366 ± 8	2035 ± 9			SHIRIMP: U-Pb in zircon	Hartmann et al. (2008)
			quartzofeldspathic gneiss			2164 ± 16	2133- 3255	LA-ICP-MS: U-Pb in zircon	Girelli et al. (2018)
			amphibolite			2135 ± 10	2102 - 2596		
			acid quartzofeldspathic gneiss			2141± 7.8	2126 - 2493		
			banded quartzofeldspathic gneiss			2131 ± 12	2134 - 2321		
			quartzofeldspathic gneiss			2158± 13	2126- 2493		
			amphibolite			2290 ± 19	2204 - 2962		
			metanorite	2238 ± 28	2096 ± 78				
			granite	2371.3 ± 6.9					
			gabbro	2413 ± 13					
			pyroxenite	2153 ± 11					
			gabbro	2160 ± 12	2014 ± 48				
			granite	1824 ± 5.3					
			mafic granulite	2413 ± 13				LA-ICP-MS: U-Pb in zircon	Laux et al. (2010)

Supplementary file 2 - U-Pb dating of the MA-03 Sample

b data not corrected for common-Pb

c data corrected/not corrected for common-Pb

*d Concordance calculated as (206Pb-238U age/207Pb-206Pb age)*100*

Decay constants of Jaffey et al. (1971) used
bd = below detection; #N/A = not available
Uncertainties quoted without components related to systematic error unless otherwise stated
Total systematic uncertainties (ssys): 206Pb/238U = 2.0%, 207Pb/206Pb = 0.55% (2s)

20th July 2017, Dept. Geology, Univ. of Ouro Preto								Ratios b								Ratios c									Dates c														
Identifier	Comments	f206c	207Pb	206Pb	U (µg g-1)	Th/U	206Pb/204Pb	207Pb/206Pb	1s	206Pb/238U	1s	207Pb/235U	1s	208Pb/232Th	1s	207Pb/206Pb	2s (%)	207Pb/235U	2s (%)	206Pb/238U	2s (%)	Rho	208Pb/232Th	*2s (%)*	207Pb/206Pb	2s	2ssys	206Pb/238U	2s	2ssys	207Pb/235U	2s	2ssys	208Pb/232Th	2s	2ssys	% conc d	estimate age	
			CPS	CPS														Data for Wetherill plot c								abs	abs		abs	abs		abs	abs		abs	abs			
~~1.sSMPABC090~~		~~0,074887~~	~~211813,6~~	~~36925,33~~	~~112,3964~~	~~0,669712~~	~~434,4157~~	~~0,17446~~	~~0,00174~~	~~0,42161~~	~~0,00394~~	~~10,14165~~	~~0,004307~~	~~0,13676~~	~~0,00298~~	~~0,174329~~	~~1,998069~~	~~10,13405~~	~~2,729103~~	~~0,42161~~	~~1,858958~~	~~0,681161~~	~~0,13676~~	~~4,357999~~	~~2599,648~~	~~33,30618~~	~~37,27484~~	~~2267,786~~	~~35,77887~~	~~46,04325~~	~~2447,081~~	~~25,55349~~	~~30,72638~~	~~2590,8~~	~~106,04~~	~~108,9958~~	~~92,91409~~	~~2599,648~~	~~33,30618~~
1.sSMPABC091		0,122373	82948,51	12663,16	41,81993	0,699338	383,7322	0,15285	0,00159	0,443746	0,00417	9,351938	0,004463	0,20962	0,00628	0,152663	2,08918	9,340494	2,803714	0,443746	1,869796	0,6669	0,20962	5,991795	2375,97	35,61284	39,51209	2367,391	37,29835	47,89009	2372,004	26,06078	31,0822	3846,6	209,92	214,0128	100,0566	2375,97	35,61284
1.sSMPABC092		0	114066	16552,12	60,16448	0,646454	1182,294	0,14511	0,00147	0,424156	0,00398	8,486417	0,004243	0,10049	0,00414	0,14511	2,026049	8,486417	2,754571	0,424156	1,866223	0,6775	0,10049	8,239626	2289,083	34,85297	38,89795	2279,32	36,07156	46,34861	2284,471	25,34959	30,39365	1935,4	152,14	153,7509	100,0225	2289,083	34,85297
1.sSMPABC093		1	27337,53	2938,551	19,63556	1,639864	83,95859	0,10736	0,00124	0,311477	0,00303	4,610727	0,003274	0,06932	0,00461	0,107491	2,963928	4,616373	3,596639	0,311477	2,037387	0,56647	0,06932	13,30063	1757,321	54,20871	57,2346	1747,97	31,40228	39,04284	1752,232	30,50063	34,19658	1354,6	174,18	175,449	99,97951	1757,321	54,20871
1.sSMPABC094		0	278190	42187,51	141,1081	0,584657	917,1199	0,15165	0,00155	0,441062	0,004	9,222376	0,00429	0,08048	0,0028	0,15165	2,044181	9,222376	2,726178	0,441062	1,803711	0,661626	0,08048	6,95825	2364,615	34,88682	38,86788	2355,391	35,8252	46,66812	2360,338	25,29944	30,43023	1564,6	104,86	106,1853	100,0411	2364,615	34,88682
1.sSMPABC095		0	126480	19768,82	62,55037	1,300059	19768,82	0,1563	0,00155	0,452378	0,00425	9,749041	0,004524	0,09458	0,00235	0,1563	1,983365	9,749041	2,724892	0,452378	1,868501	0,685716	0,09458	4,969338	2416,022	33,67004	37,73855	2405,817	37,77224	48,5123	2411,348	25,42271	30,58335	1826,7	86,84	88,84346	100,023	2416,022	33,67004
1.sSMPABC096		0	42096	6646,958	20,47594	1,512881	6646,958	0,1579	0,00171	0,459946	0,00439	10,0136	0,004711	0,11782	0,00533	0,1579	2,165928	10,0136	2,880065	0,459946	1,898296	0,659116	0,11782	9,0477	2433,297	36,70454	40,45649	2439,319	38,81663	49,54776	2436,036	26,95657	31,90157	2251,2	192,86	194,8266	100,3885	2433,297	36,70454
~~1.sSMPABC097~~		~~0,714449~~	~~142918,1~~	~~21375,36~~	~~90,35786~~	~~1,915253~~	~~61,60047~~	~~0,15064~~	~~0,00151~~	~~0,35386~~	~~0,00332~~	~~7,349749~~	~~0,003647~~	~~0,09273~~	~~0,00177~~	~~0,149564~~	~~2,233817~~	~~7,297239~~	~~2,938225~~	~~0,35386~~	~~1,908725~~	~~0,649618~~	~~0,09273~~	~~3,817535~~	~~2340,944~~	~~38,21744~~	~~41,90044~~	~~1953,002~~	~~32,37411~~	~~41,23136~~	~~2148,472~~	~~26,60161~~	~~31,30296~~	~~1792,5~~	~~65,34~~	~~67,9166~~	~~91,12902~~	~~2340,944~~	~~38,21744~~
1.sSMPABC098		0,036939	93387,5	15448,05	43,99409	1,641946	617,9222	0,16548	0,00171	0,474902	0,00445	10,83555	0,004767	0,11872	0,00297	0,165419	2,067961	10,83155	2,783856	0,474902	1,863704	0,669469	0,11872	5,003369	2511,817	34,76894	38,65037	2505,023	38,94838	50,07496	2508,777	26,22567	31,34604	2267,6	107,38	109,8443	100,1059	2511,817	34,76894
1.sSMPABC099		0	16172	2492,59	7,89508	0,819181	2492,59	0,15413	0,00193	0,458265	0,0047	9,738798	0,005081	0,14165	0,03069	0,15413	2,504379	9,738798	3,229968	0,458265	2,039798	0,631523	0,14165	43,33216	2392,259	42,61871	45,91624	2431,894	41,61476	51,72852	2410,38	30,20271	34,68518	2677,6	1086,66	1117,302	101,1468	2392,259	42,61871
1.sSMPABC100		0	452796	71650,44	220,2067	0,482971	1885,538	0,15824	0,00159	0,460025	0,00424	10,03689	0,004528	0,11928	0,00262	0,15824	2,009606	10,03689	2,72008	0,460025	1,833117	0,67392	0,11928	4,393025	2436,941	34,04284	38,05529	2439,67	37,4844	48,51079	2438,182	25,44564	30,62782	2277,5	94,7	97,17148	100,3148	2436,941	34,04284
1.sSMPABC107		0	39151	6177,636	19,12326	1,396993	617,7636	0,15779	0,00172	0,458027	0,0044	9,964865	0,004724	0,04763	0,00585	0,15779	2,180113	9,964865	2,898837	0,458027	1,910593	0,659089	0,04763	24,56435	2432,115	36,94936	40,6796	2430,839	38,95688	49,60341	2431,534	27,12251	32,0389	940,5	225,76	227,2076	100,2248	2432,115	36,94936
1.sSMPABC108		0	14399	2268,274	6,982389	0,209438	133,4279	0,15753	0,00195	0,461358	0,0048	10,0208	0,005181	1,44905	0,19714	0,15753	2,475719	10,0208	3,226594	0,461358	2,069233	0,641306	1,44905	27,20955	2429,32	41,97135	45,29164	2445,551	42,41252	52,45727	2436,701	30,25075	34,74929	******	3253,96	#VALOR!	100,6174	2429,32	41,97135
1.sSMPABC109		0	57243	8857,209	28,5194	0,808541	681,3238	0,15473	0,00164	0,449047	0,00428	9,580042	0,004583	0,13621	0,00713	0,15473	2,119822	9,580042	2,843789	0,449047	1,895651	0,666593	0,13621	10,46913	2398,869	36,0499	39,88916	2391,014	38,12771	48,69394	2395,258	26,50277	31,47855	2581,1	253,64	256,4932	100,0747	2398,869	36,0499
1.sSMPABC110		0,276797	149780,6	19163,66	92,61951	1,009108	128,6152	0,1283	0,00126	0,361795	0,00344	6,400157	0,003663	0,10405	0,00246	0,127945	2,016564	6,382442	2,768707	0,361795	1,897157	0,685214	0,10405	4,728496	2069,927	35,53565	39,69671	1990,677	32,70787	41,75441	2029,857	24,61929	29,46999	2000,6	90,22	92,17851	98,30433	2069,927	35,53565
1.sSMPABC111		0	28820	3990,994	15,77559	1,355235	3990,994	0,13848	0,00157	0,408713	0,00398	7,803803	0,004278	0,16337	0,00773	0,13848	2,267475	7,803803	2,982014	0,408713	1,93674	0,649474	0,16337	9,463182	2208,285	39,3468	43,03168	2209,033	36,4697	46,19462	2208,645	27,21811	31,8997	3058,6	268,42	271,9946	100,263	2208,285	39,3468
1.sSMPABC112		0,168148	74839,84	10374,04	41,04999	3,172902	199,5007	0,13885	0,00147	0,407877	0,00383	7,808662	0,004102	0,11848	0,0026	0,138617	2,13479	7,795532	2,837577	0,407877	1,869363	0,658788	0,11848	4,388926	2209,995	37,03745	40,92938	2205,209	35,14634	45,12894	2207,69	25,87968	30,75637	2263,1	93,94	96,55244	100,1328	2209,995	37,03745
1.sSMPABC113		0	113315	17685,07	55,94373	0,768635	1360,39	0,15607	0,00161	0,453154	0,00421	9,751386	0,004507	0,14589	0,00495	0,15607	2,063177	9,751386	2,769633	0,453154	1,847747	0,667145	0,14589	6,785935	2413,522	35,0339	38,96215	2409,259	37,3956	48,24155	2411,57	25,84608	30,93904	2752,6	174,58	177,3673	100,1568	2413,522	35,0339
1.sSMPABC114		0,048526	81394,5	13314,56	38,31861	0,547604	317,0133	0,16366	0,00172	0,47522	0,00441	10,72356	0,004734	0,30536	0,01124	0,163581	2,103776	10,71835	2,798699	0,47522	1,845763	0,659508	0,30536	7,361802	2493,011	35,43739	39,26639	2506,413	38,58986	49,80492	2499,016	26,34362	31,43719	5386,1	348,02	354,3604	100,552	2493,011	35,43739
1.sSMPABC115		0	49553	7735,719	24,42203	2,21576	7735,719	0,15611	0,0017	0,453939	0,00424	9,770795	0,004568	0,12129	0,00479	0,15611	2,177951	9,770795	2,862603	0,453939	1,857694	0,648953	0,12129	7,898425	2413,957	36,98119	40,72171	2412,743	37,64236	48,45644	2413,401	26,73016	31,68847	2313,9	172,52	174,8394	100,2255	2413,957	36,98119
1.sSMPABC116		0	10245	1612,256	4,976176	0,780859	1612,256	0,15737	0,0021	0,460602	0,00511	9,994226	0,005525	0,11614	0,04502	0,15737	2,66887	9,994226	3,462866	0,460602	2,206486	0,637185	0,11614	77,52712	2427,597	45,25381	48,35026	2442,216	45,18481	54,70857	2434,249	32,4938	36,729	2220,8	1630,54	1700,176	100,5814	2427,597	45,25381
1.sSMPABC117		0	17686	2918,721	8,355701	1,492256	2918,721	0,16503	0,00196	0,47354	0,00484	10,77508	0,005222	0,04029	0,01203	0,16503	2,375326	10,77508	3,126413	0,47354	2,032802	0,650203	0,04029	59,71705	2507,859	39,95241	43,37501	2499,065	42,41106	52,78329	2503,92	29,48689	34,1367	798,4	467,62	473,0568	100,0615	2507,859	39,95241
1.sSMPABC118		0,256345	144828,3	15433,79	103,6312	2,309594	113,4837	0,10684	0,0011	0,31266	0,00294	4,605827	0,003139	0,09	0,00185	0,106566	2,119763	4,594021	2,831522	0,31266	1,877265	0,662988	0,09	4,111111	1741,493	38,84597	42,98323	1753,784	29,01257	37,18632	1748,183	23,91417	28,43306	1741,9	68,54	70,80727	100,5438	1741,493	38,84597
1.sSMPABC119		0,304539	123386,8	13098,21	89,17946	1,46718	42,25229	0,10648	0,00112	0,309538	0,00302	4,544465	0,003221	0,11353	0,00271	0,106156	2,186722	4,530625	2,930075	0,309538	1,950279	0,665607	0,11353	4,774069	1734,418	40,10852	44,13436	1738,431	29,9135	37,78612	1736,61	24,6945	29,07648	2173,5	98,48	100,7591	100,3272	1734,418	40,10852
~~1.sSMPABC120~~		~~1,634356~~	~~53551,22~~	~~7957,763~~	~~114,3476~~	~~3,874905~~	~~24,48543~~	~~0,15107~~	~~0,00159~~	~~0,104774~~	~~0,001~~	~~2,182385~~	~~0,001878~~	~~0,02631~~	~~0,0006~~	~~0,148601~~	~~3,068862~~	~~2,146717~~	~~4,758813~~	~~0,104774~~	~~3,637085~~	~~0,764284~~	~~0,02631~~	~~4,561003~~	~~2329,889~~	~~52,56476~~	~~55,30654~~	~~642,3235~~	~~22,38708~~	~~24,22604~~	~~1163,994~~	~~33,57177~~	~~35,95313~~	~~524,9~~	~~23,64~~	~~24,20479~~	~~55,29277~~	~~2329,889~~	~~52,56476~~
1.sSMPABC127		0	284777	47532,13	133,3131	0,75259	47532,13	0,16691	0,00174	0,477905	0,00436	10,9983	0,004694	0,09749	0,00338	0,16691	2,084956	10,9983	2,763939	0,477905	1,814474	0,656481	0,09749	6,934045	2526,894	35,00238	38,84956	2518,135	38,07894	49,48581	2522,988	26,06927	31,22641	1880,3	124,4	126,2311	100,0636	2526,894	35,00238
~~1.sSMPABC128~~		~~0,620713~~	~~144338,9~~	~~13338,76~~	~~320,8121~~	~~2,068803~~	~~37,57398~~	~~0,09299~~	~~0,00095~~	~~0,100657~~	~~0,00095~~	~~1,290565~~	~~0,001344~~	~~0,02946~~	~~0,00063~~	~~0,092413~~	~~2,455949~~	~~1,282555~~	~~3,325568~~	~~0,100657~~	~~2,242256~~	~~0,674248~~	~~0,02946~~	~~4,276986~~	~~1475,883~~	~~46,585~~	~~50,32762~~	~~618,256~~	~~13,29975~~	~~16,01359~~	~~837,9909~~	~~19,2004~~	~~21,88126~~	~~586,8~~	~~24,62~~	~~25,37734~~	~~73,89089~~	~~1475,883~~	~~46,585~~
1.sSMPABC129		0	126394	19971,52	61,89018	1,726589	1664,293	0,15801	0,0016	0,456893	0,00434	9,95406	0,004626	0,15799	0,00351	0,15801	2,025188	9,95406	2,769571	0,456893	1,889215	0,682133	0,15799	4,443319	2434,477	34,3154	38,3012	2425,824	38,45417	49,17608	2430,533	25,8949	30,99785	2964,8	122,54	125,9667	100,0593	2434,477	34,3154
1.sSMPABC130		0	82800	12897,76	40,76037	1,655199	12897,76	0,15577	0,00163	0,454466	0,0043	9,760835	0,004599	0,11264	0,00347	0,15577	2,092829	9,760835	2,814444	0,454466	1,881797	0,668621	0,11264	6,161222	2410,254	35,5493	39,4287	2415,079	38,16269	48,87796	2412,462	26,27208	31,29929	2157,4	125,96	128,1768	100,3615	2410,254	35,5493
1.sSMPABC131		0	500830	99690,21	206,223	1,586742	205,5468	0,19905	0,00198	0,543329	0,00523	14,91168	0,005592	0,14584	0,00313	0,19905	1,98945	14,91168	2,760986	0,543329	1,914454	0,693395	0,14584	4,292375	2818,423	32,49234	36,39585	2797,369	43,75316	55,67305	2809,619	26,62801	31,90782	2751,6	110,4	113,6721	99,8269	2818,423	32,49234
1.sSMPABC132		0,046504	100445,7	17920,22	45,01451	0,574644	471,5847	0,17849	0,00182	0,499216	0,00477	12,28581	0,005105	0,11919	0,00629	0,178407	2,040945	12,28009	2,788758	0,499216	1,900451	0,681469	0,11919	10,55458	2638,117	33,89547	37,77504	2610,426	41,07687	52,41242	2626,051	26,53912	31,70487	2275,9	227,22	229,4126	99,66314	2638,117	33,89547
1.sSMPABC133		0,049088	142477,9	17843,72	85,95618	0,410189	457,5313	0,1253	0,00125	0,370835	0,00352	6,406673	0,003735	0,15555	0,0052	0,125238	1,99773	6,403528	2,748748	0,370835	1,888039	0,686872	0,15555	6,685953	2032,171	35,3559	39,57015	2033,326	33,14416	42,39092	2032,753	24,45065	29,33222	2922,2	181,96	184,7812	100,2661	2032,171	35,3559
~~1.sSMPABC134~~		~~0~~	~~276317~~	~~50850,62~~	~~204,3601~~	~~3,106543~~	~~54,79592~~	~~0,18403~~	~~0,00184~~	~~0,302497~~	~~0,00286~~	~~7,675576~~	~~0,003401~~	~~0,05322~~	~~0,00113~~	~~0,18403~~	~~1,999674~~	~~7,675576~~	~~2,744925~~	~~0,302497~~	~~1,880404~~	~~0,685047~~	~~0,05322~~	~~4,246524~~	~~2689,528~~	~~33,04885~~	~~36,98087~~	~~1703,679~~	~~28,33528~~	~~36,29395~~	~~2193,747~~	~~24,97945~~	~~29,98095~~	~~1048,1~~	~~43,36~~	~~44,66917~~	~~77,86438~~	~~2689,528~~	~~33,04885~~
~~1.sSMPABC135~~		~~1,461179~~	~~467468,6~~	~~92169,06~~	~~314,1235~~	~~1,542608~~	~~40,47829~~	~~0,20009~~	~~0,00199~~	~~0,332937~~	~~0,00315~~	~~9,185193~~	~~0,003726~~	~~0,08491~~	~~0,00181~~	~~0,197166~~	~~2,504317~~	~~9,05098~~	~~3,251826~~	~~0,332937~~	~~2,074312~~	~~0,637891~~	~~0,08491~~	~~4,263338~~	~~2802,882~~	~~40,95877~~	~~44,12802~~	~~1852,6~~	~~33,62743~~	~~41,54961~~	~~2343,169~~	~~30,19439~~	~~34,61921~~	~~1647,2~~	~~67,44~~	~~69,36917~~	~~79,27547~~	~~2802,882~~	~~40,95877~~
~~1.sSMPABC136~~		~~4,255601~~	~~2206,918~~	~~1341,248~~	~~0,867629~~	~~0,910287~~	~~18,89082~~	~~0,63476~~	~~0,01064~~	~~0,569065~~	~~0,01456~~	~~49,80498~~	~~0,018033~~	~~1,30908~~	~~0,31577~~	~~0,607747~~	~~3,771135~~	~~47,68548~~	~~6,50602~~	~~0,569065~~	~~5,301589~~	~~0,814874~~	~~1,30908~~	~~48,24304~~	~~4526,63~~	~~54,74043~~	~~56,64738~~	~~2903,98~~	~~125,6066~~	~~130,6053~~	~~3945,15~~	~~66,86563~~	~~69,48609~~	~~******~~	~~5528,04~~	~~#VALOR!~~	~~73,83632~~	~~4526,63~~	~~54,74043~~
~~1.sSMPABC137~~		~~5,392667~~	~~1617,211~~	~~599,2092~~	~~1,910478~~	~~1,58528~~	~~8,32235~~	~~0,39164~~	~~0,00829~~	~~0,18938~~	~~0,00356~~	~~10,2264~~	~~0,009022~~	~~0,16437~~	~~0,0516~~	~~0,37052~~	~~5,338246~~	~~9,674921~~	~~8,634157~~	~~0,18938~~	~~6,786147~~	~~0,785965~~	~~0,16437~~	~~62,78518~~	~~3793,547~~	~~80,86067~~	~~82,2785~~	~~1118,016~~	~~70,36557~~	~~72,07964~~	~~2404,323~~	~~82,78328~~	~~84,65422~~	~~3075,9~~	~~1791,46~~	~~1876,109~~	~~46,63942~~	~~3793,547~~	~~80,86067~~
1.sSMPABC138		0,324245	21338,19	2661,39	12,912	5,340581	73,9275	0,12513	0,00149	0,369721	0,00372	6,378765	0,004007	0,12399	0,00347	0,124724	2,445189	6,358082	3,164473	0,369721	2,008717	0,634771	0,12399	5,597226	2024,886	43,3113	46,82046	2028,086	35,19102	43,97838	2026,501	28,17296	32,51286	2362,4	124,92	127,087	100,3159	2024,886	43,3113
1.sSMPABC139		0,068553	86595,36	13248,66	43,72225	2,178824	213,6881	0,1531	0,00163	0,4431	0,0042	9,35359	0,004505	0,12708	0,00364	0,152995	2,132672	9,347177	2,846603	0,4431	1,885434	0,662345	0,12708	5,728675	2379,673	36,34028	40,16618	2364,504	37,5732	48,08607	2372,66	26,46652	31,42631	2418	130,52	132,9874	99,90714	2379,673	36,34028
1.sSMPABC140		0	26003	4301,676	12,25596	0,507435	4301,676	0,16543	0,00193	0,474663	0,00467	10,82683	0,005053	-0,30406	0,03248	0,16543	2,333313	10,82683	3,045202	0,474663	1,956759	0,642571	-0,30406	-21,3642	2511,93	39,22991	42,70774	2503,979	40,88528	51,59312	2508,373	28,72177	33,47698	******	1886,7	#VALOR!	100,0804	2511,93	39,22991
1.sSMPABC147		0	7798	476,4578	17,04744	2,123205	7,11131	0,0611	0,00114	0,102337	0,00111	0,862137	0,001591	0,08541	0,00455	0,0611	3,731588	0,862137	4,310263	0,102337	2,157225	0,500486	0,08541	10,65449	642,7563	80,21772	83,07072	628,0915	12,98879	15,83295	631,2887	20,52964	22,28036	1656,5	169,3	170,8797	99,60937	628,0915	12,98879
1.sSMPABC148		0	29309	4647,235	14,25837	0,82891	4647,235	0,15856	0,00184	0,459876	0,00449	10,05393	0,004852	0,22209	0,01748	0,15856	2,320888	10,05393	3,026092	0,459876	1,941832	0,641696	0,22209	15,74137	2440,363	39,30232	42,82244	2439,011	39,70547	50,24689	2439,748	28,35302	33,10155	4053,9	578,28	587,9317	100,2234	2440,363	39,30232
1.sSMPABC149		0,022472	96701,73	14821,04	48,28425	1,215999	423,4584	0,1533	0,00162	0,448062	0,00424	9,470695	0,004539	0,18322	0,00576	0,153266	2,114181	9,468567	2,83055	0,448062	1,882087	0,664919	0,18322	6,287523	2382,683	36,01401	39,86895	2386,632	37,79671	48,40592	2384,502	26,34822	31,33737	3400,4	196,92	200,1755	100,3413	2382,683	36,01401
1.sSMPABC150		0,384579	55588,78	5964,995	39,76365	1,205411	72,74384	0,10772	0,00118	0,31276	0,00301	4,645241	0,003233	0,12278	0,00458	0,107306	2,313182	4,627376	3,012367	0,31276	1,929649	0,640575	0,12278	7,460498	1754,157	42,32357	46,13854	1754,272	29,83125	37,83318	1754,22	25,49395	29,79283	2340,8	165	167,1403	100,2263	1754,157	42,32357
~~1.sSMPABC151~~		~~0~~	~~2275~~	~~1302,392~~	~~1,365611~~	~~12,24955~~	~~16,48597~~	~~0,57248~~	~~0,00931~~	~~0,372704~~	~~0,00701~~	~~29,41885~~	~~0,011654~~	~~0,06144~~	~~0,00927~~	~~0,57248~~	~~3,252515~~	~~29,41885~~	~~4,957031~~	~~0,372704~~	~~3,740761~~	~~0,754638~~	~~0,06144~~	~~30,17578~~	~~4439,658~~	~~47,42657~~	~~49,63489~~	~~2042,112~~	~~66,07753~~	~~71,23815~~	~~3467,597~~	~~49,89307~~	~~53,19119~~	~~1205,2~~	~~353,06~~	~~356,3782~~	~~59,08016~~	~~4439,658~~	~~47,42657~~
1.sSMPABC152		0,403698	18310,92	2029,413	12,72823	1,830224	47,19566	0,11128	0,00138	0,321849	0,00328	4,938217	0,003558	0,24369	0,00882	0,110831	2,594651	4,918281	3,301923	0,321849	2,042175	0,618481	0,24369	7,238705	1813,081	47,12935	50,53494	1798,751	32,27009	40,08924	1805,398	28,27852	32,30083	4408	286,58	291,5802	99,85749	1813,081	47,12935
1.sSMPABC153		0	31136	4853,168	15,36783	1,908499	4853,168	0,15587	0,00175	0,453273	0,00449	9,741455	0,004819	0,17165	0,00696	0,15587	2,245461	9,741455	2,987217	0,453273	1,970119	0,659517	0,17165	8,109525	2411,344	38,13769	41,77664	2409,788	39,88713	50,20568	2410,632	27,90203	32,68762	3201,9	240,24	243,4486	100,2177	2411,344	38,13769
1.sSMPABC154		0	12203	751,4607	27,04261	0,507894	187,8652	0,06158	0,00097	0,100955	0,00104	0,857173	0,001422	-0,10492	0,01112	0,06158	3,150373	0,857173	3,758014	0,100955	2,048857	0,545197	-0,10492	-21,1971	659,5548	67,53515	70,8821	620,003	12,18427	15,11351	628,5787	17,82023	19,79298	******	502,28	#VALOR!	98,75037	620,003	12,18427
1.sSMPABC155		0,135622	61717,7	8570,824	33,8277	1,67836	276,4782	0,13906	0,00149	0,408176	0,00395	7,826192	0,004222	0,08636	0,00357	0,138871	2,154741	7,815578	2,889919	0,408176	1,925804	0,666387	0,08636	8,267717	2213,181	37,37063	41,22857	2206,575	36,22932	45,98837	2210,002	26,37106	31,17649	1674,3	132,98	134,3313	100,0901	2213,181	37,37063
1.sSMPABC156		0,163037	23310	1448,915	53,47909	1,810714	30,82797	0,06226	0,00082	0,097514	0,00097	0,837102	0,00127	0,03547	0,00177	0,062158	2,690062	0,835737	3,35574	0,097514	2,006131	0,597821	0,03547	9,980265	679,5662	57,47726	61,35032	599,8249	11,55933	14,44583	616,7906	15,67997	17,82813	704,5	69,28	69,56278	97,36109	599,8249	11,55933
1.sSMPABC157		0	41334	6419,17	20,6509	5,086375	103,535	0,1553	0,00171	0,447794	0,00446	9,588504	0,004777	0,13823	0,00382	0,1553	2,202189	9,588504	2,962028	0,447794	1,980902	0,668765	0,13823	5,52702	2405,12	37,42662	41,13305	2385,437	39,77079	49,95869	2396,069	27,62215	32,43412	2617	135,54	138,3943	99,80775	2405,12	37,42662
1.sSMPABC158		0	32190	2013,163	72,05904	1,479045	2013,163	0,06254	0,00077	0,099941	0,00098	0,86179	0,001246	0,019	0,00152	0,06254	2,462424	0,86179	3,141179	0,099941	1,950249	0,620865	0,019	16	692,6261	52,50062	56,69717	614,0611	11,49136	14,51027	631,0995	14,91694	17,22922	380,4	60,2	60,47898	97,41401	614,0611	11,49136
1.sSMPABC159		0,187408	88241,37	12067,29	47,94954	0,297206	167,6013	0,13701	0,00146	0,411716	0,00391	7,777697	0,004174	0,13454	0,01287	0,136753	2,152752	7,763121	2,865326	0,411716	1,890966	0,659948	0,13454	19,13186	2186,485	37,44517	41,31762	2222,761	35,79091	45,75114	2203,942	26,12355	30,95909	2551,4	458,52	464,5601	101,1006	2186,485	37,44517
1.sSMPABC160		0	19451	1189,234	41,78346	1,490071	1189,234	0,06114	0,00086	0,104147	0,00105	0,877958	0,001357	-0,00683	0,00244	0,06114	2,813216	0,877958	3,454683	0,104147	2,005156	0,580417	-0,00683	-71,4495	644,163	60,46141	64,19678	638,6669	12,26576	15,33155	639,8794	16,58275	18,73457	-138,5	99,3	-99,0574	99,92784	638,6669	12,26576
1.sSMPABC167		0,078757	121669,8	18185,04	62,46462	0,795121	534,8541	0,14958	0,00161	0,435771	0,00412	8,987383	0,004423	0,12941	0,00585	0,149462	2,156967	8,980305	2,861751	0,435771	1,880721	0,657192	0,12941	9,041032	2339,782	36,90714	40,70974	2331,681	37,04672	47,45811	2336,004	26,50372	31,42208	2459,8	209,4	211,8446	100,0648	2339,782	36,90714
1.sSMPABC168		0	21696	3425,798	10,57534	0,971185	3425,798	0,1579	0,00194	0,458981	0,00463	9,992596	0,00502	0,1119	0,02156	0,1579	2,457251	9,992596	3,172264	0,458981	2,006283	0,632445	0,1119	38,53441	2433,297	41,64141	44,98346	2435,058	40,97273	51,23194	2434,099	29,72616	34,28833	2143,9	783,94	799,7036	100,293	2433,297	41,64141
1.sSMPABC169		0	35965	5807,988	16,8799	1,985015	5807,988	0,16149	0,00181	0,476672	0,00471	10,6137	0,005046	0,16517	0,00787	0,16149	2,241625	10,6137	2,981091	0,476672	1,965202	0,659223	0,16517	9,529576	2471,321	37,84155	41,46408	2512,755	41,18011	51,88243	2489,907	28,06058	32,89221	3089,7	273,04	276,3525	101,1744	2471,321	37,84155
1.sSMPABC170		0	16795	2728,516	7,939919	1,228122	2728,516	0,16246	0,00199	0,473231	0,00492	10,60038	0,005307	0,29509	0,01873	0,16246	2,449834	10,60038	3,205818	0,473231	2,067748	0,644999	0,29509	12,69443	2481,425	41,31447	44,64964	2497,716	43,12351	53,35062	2488,742	30,20437	34,75065	5226,5	584,56	595,1514	100,6164	2481,425	41,31447
1.sSMPABC171		0	152669	22755,31	78,08009	0,590994	5688,829	0,14905	0,00158	0,437442	0,00416	8,989872	0,00445	0,16663	0,00654	0,14905	2,120094	8,989872	2,841148	0,437442	1,891382	0,66571	0,16663	7,849727	2335,056	36,29418	40,15851	2339,178	37,35683	47,75037	2336,977	26,31325	31,26139	3115,1	226,64	229,7688	100,3446	2335,056	36,29418
1.sSMPABC172		0,94437	41216,23	5719,046	22,30493	1,445999	42,05181	0,14008	0,00158	0,413406	0,00402	7,984624	0,004319	0,13967	0,00712	0,138757	2,653147	7,90922	3,314504	0,413406	1,986642	0,599378	0,13967	10,19546	2211,753	46,02186	49,20709	2230,476	37,7165	47,32608	2220,731	30,34501	34,63549	2642,6	252,42	255,4555	100,6855	2211,753	46,02186
1.sSMPABC173		0	77368	10706,18	42,30468	0,974446	125,9551	0,13838	0,00149	0,40915	0,00404	7,806516	0,004306	0,1218	0,0054	0,13838	2,15349	7,806516	2,914475	0,40915	1,963834	0,673821	0,1218	8,866995	2207,031	37,37396	41,23652	2211,035	37,0095	46,63602	2208,958	26,59457	31,36596	2323	194,72	196,7062	100,3396	2207,031	37,37396
1.sSMPABC174		0	35771	5448,281	17,96934	1,493447	5448,281	0,15231	0,00173	0,445357	0,00437	9,352731	0,0047	0,09817	0,00754	0,15231	2,271683	9,352731	2,994841	0,445357	1,951546	0,651636	0,09817	15,36111	2372,023	38,73967	42,35484	2374,58	39,03195	49,30157	2373,204	27,86547	32,62208	1892,9	277,58	280,1995	100,3095	2372,023	38,73967
1.sSMPABC175		0	33733	4655,491	18,49459	1,447468	775,9152	0,13801	0,00155	0,408056	0,00406	7,764828	0,004346	0,23956	0,00906	0,13801	2,246214	7,764828	2,993545	0,408056	1,978847	0,661038	0,23956	7,563867	2202,383	39,00295	42,72208	2206,029	37,22234	46,77285	2204,14	27,30909	31,97297	4340,6	295,32	300,1684	100,3311	2202,383	39,00295
1.sSMPABC176		0	19366	2768,176	10,41364	4,119576	60,17774	0,14294	0,00173	0,416051	0,00428	8,199779	0,004616	0,14437	0,00569	0,14294	2,420596	8,199779	3,16944	0,416051	2,045987	0,645536	0,14437	7,882524	2263,128	41,75566	45,20524	2242,529	39,02233	48,4519	2253,317	29,11464	33,58885	2725,7	201,1	203,6384	99,76758	2263,128	41,75566
1.sSMPABC177		0	29980	4297,933	16,08993	1,021246	358,1611	0,14336	0,00163	0,416857	0,00418	8,239794	0,004487	0,08038	0,00975	0,14336	2,273996	8,239794	3,024628	0,416857	1,994322	0,659361	0,08038	24,25977	2268,188	39,20553	42,85705	2246,195	38,08608	47,72303	2257,724	27,78083	32,43619	1562,6	364,74	368,4006	99,73581	2268,188	39,20553
1.sSMPABC178		0	112675	16564,35	57,9618	0,947919	16564,35	0,14701	0,00155	0,434906	0,00421	8,81543	0,004486	0,13461	0,00504	0,14701	2,1087	8,81543	2,855399	0,434906	1,925276	0,674258	0,13461	7,4883	2311,434	36,18896	40,08181	2327,796	37,87442	48,08327	2319,09	26,39426	31,31217	2552,6	179,66	182,0098	100,6256	2311,434	36,18896
1.sSMPABC179		0	333625	50590,9	166,9347	0,424191	50590,9	0,15164	0,00161	0,447118	0,00422	9,34839	0,004517	0,12547	0,00522	0,15164	2,12345	9,34839	2,834202	0,447118	1,877141	0,662317	0,12547	8,320714	2364,502	36,24009	40,08707	2382,425	37,6421	48,25742	2372,779	26,35004	31,32767	2389,2	187,48	189,8389	100,6587	2364,502	36,24009
1.sSMPABC180		0	21453	2304,696	15,16109	1,807849	2304,696	0,10743	0,00134	0,316568	0,00321	4,689151	0,003478	0,00996	0,00578	0,10743	2,494648	4,689151	3,207864	0,316568	2,016712	0,628677	0,00996	116,0643	1756,275	45,63176	49,18902	1772,948	31,46918	39,2683	1765,305	27,23511	31,32264	200,4	231,38	232,7742	100,6576	1756,275	45,63176
1.sSMPABC187		0,06764	52291,37	3183,958	116,3048	1,883607	99,49869	0,06093	0,00071	0,100587	0,00099	0,845035	0,001218	0,02033	0,00098	0,060889	2,34268	0,844463	3,055781	0,100587	1,962052	0,642079	0,02033	9,640925	635,3076	50,42282	54,8587	617,8483	11,62893	14,65115	621,6055	14,34962	16,69059	406,9	38,9	39,18094	99,50991	617,8483	11,62893
1.sSMPABC188		0	519108	84687,28	244,8141	1,793358	84687,28	0,16314	0,0017	0,474385	0,00456	10,67069	0,004867	0,1474	0,00496	0,16314	2,0841	10,67069	2,828146	0,474385	1,911789	0,675987	0,1474	6,729986	2488,467	35,12189	38,98523	2502,762	39,92685	50,82731	2494,878	26,61424	31,66247	2779,1	174,82	177,4069	100,5719	2488,467	35,12189
1.sSMPABC189		0,22585	345092,4	56942,48	162,884	1,257089	83,49338	0,16538	0,0017	0,473987	0,00459	10,80814	0,004895	0,1536	0,00494	0,165006	2,078629	10,78373	2,835328	0,473987	1,928312	0,680102	0,1536	6,432292	2507,62	34,96289	38,82799	2501,023	40,25005	51,07122	2504,665	26,70691	31,74931	2888,2	173,08	176,093	100,11	2507,62	34,96289
1.sSMPABC190		0,118903	68923,95	10311,84	35,37549	2,07283	343,7281	0,14979	0,00163	0,43589	0,00426	9,002465	0,004561	0,12994	0,00494	0,149612	2,184761	8,991761	2,924765	0,43589	1,944498	0,664839	0,12994	7,603509	2341,495	37,37601	41,13401	2332,217	38,31407	48,45972	2337,169	27,09867	31,93025	2469,2	176,8	179,0397	100,038	2341,495	37,37601
~~1.sSMPABC191~~		~~0~~	~~53855~~	~~9727,29~~	~~50,74343~~	~~0,570332~~	~~1215,911~~	~~0,18062~~	~~0,00195~~	~~0,237441~~	~~0,00234~~	~~5,913206~~	~~0,003046~~	~~0,1525~~	~~0,00743~~	~~0,18062~~	~~2,159229~~	~~5,913206~~	~~2,91617~~	~~0,237441~~	~~1,960045~~	~~0,67213~~	~~0,1525~~	~~9,744262~~	~~2658,571~~	~~35,79022~~	~~39,47038~~	~~1373,38~~	~~24,40029~~	~~30,76122~~	~~1963,176~~	~~25,6693~~	~~30,26724~~	~~2868,9~~	~~260,6~~	~~263,8109~~	~~70,13628~~	~~2658,571~~	~~35,79022~~
1.sSMPABC192		0,00332	69670,31	4223,274	152,1162	0,383632	150,8312	0,06062	0,00069	0,102467	0,001	0,856444	0,001215	0,00793	0,0027	0,060618	2,276578	0,856416	2,991706	0,102467	1,941004	0,648795	0,00793	68,09584	625,7061	49,07847	53,63961	628,8475	11,69912	14,79896	628,1645	14,15422	16,5559	159,7	108,22	108,6395	100,2247	628,8475	11,69912
~~1.sSMPABC193~~		~~0~~	~~2256~~	~~1347,892~~	~~1,225682~~	~~1,715781~~	~~32,09267~~	~~0,59747~~	~~0,0098~~	~~0,411785~~	~~0,00813~~	~~33,92253~~	~~0,012733~~	~~-0,02909~~	~~0,07578~~	~~0,59747~~	~~3,280499~~	~~33,92253~~	~~5,11669~~	~~0,411785~~	~~3,926683~~	~~0,767426~~	~~-0,02909~~	~~-521,004~~	~~4501,858~~	~~47,67936~~	~~49,86255~~	~~2223,079~~	~~74,55394~~	~~79,85952~~	~~3607,79~~	~~51,77207~~	~~54,99303~~	~~-596,7~~	~~3154,94~~	~~-2931,86~~	~~61,81597~~	~~4501,858~~	~~47,67936~~
~~1.sSMPABC194~~		~~0,758242~~	~~657795,7~~	~~114411,1~~	~~389,0411~~	~~0,931111~~	~~71,10698~~	~~0,17526~~	~~0,0018~~	~~0,378273~~	~~0,00366~~	~~9,140908~~	~~0,004079~~	~~0,13481~~	~~0,0045~~	~~0,173931~~	~~2,245929~~	~~9,071598~~	~~2,984329~~	~~0,378273~~	~~1,965203~~	~~0,658507~~	~~0,13481~~	~~6,676063~~	~~2595,835~~	~~37,45159~~	~~41,02366~~	~~2068,211~~	~~35,00511~~	~~44,09711~~	~~2345,25~~	~~27,68272~~	~~32,43864~~	~~2556,2~~	~~160,16~~	~~162,812~~	~~88,41663~~	~~2595,835~~	~~37,45159~~
~~1.sSMPABC195~~		~~0,228938~~	~~234563~~	~~17090,92~~	~~505,3699~~	~~0,261551~~	~~79,49265~~	~~0,07303~~	~~0,00077~~	~~0,103839~~	~~0,00101~~	~~1,045592~~	~~0,00127~~	~~0,06086~~	~~0,00237~~	~~0,072863~~	~~2,205003~~	~~1,043199~~	~~2,965904~~	~~0,103839~~	~~1,98357~~	~~0,668791~~	~~0,06086~~	~~7,788367~~	~~1010,139~~	~~44,71091~~	~~49,12794~~	~~636,8668~~	~~12,10104~~	~~15,18509~~	~~725,508~~	~~15,53626~~	~~18,21734~~	~~1194,2~~	~~90,16~~	~~91,32636~~	~~87,89884~~	~~1010,139~~	~~44,71091~~
1.sSMPABC196		0	78742	11291,6	42,56867	1,573264	1129,16	0,1434	0,00155	0,413834	0,00409	8,18232	0,004374	0,13972	0,00524	0,1434	2,161785	8,18232	2,921822	0,413834	1,965637	0,672744	0,13972	7,500716	2268,669	37,26902	41,0926	2232,426	37,34389	47,04171	2251,388	26,80344	31,59049	2643,3	185,7	188,2811	99,40339	2268,669	37,26902
1.sSMPABC197		0,047339	335348,8	49014,83	171,5126	0,693711	576,6451	0,14623	0,00157	0,437432	0,00418	8,819585	0,004465	0,12401	0,00511	0,146161	2,149296	8,815409	2,86913	0,437432	1,90064	0,662445	0,12401	8,241271	2301,487	36,92448	40,75479	2339,133	37,53963	47,89357	2319,088	26,52285	31,42142	2362,9	183,94	186,0275	101,1154	2301,487	36,92448

a concentration uncertainty ca. 10%

b data not corrected for common-Pb

c data corrected/not corrected for common-Pb

*d Concordance calculated as (206Pb-238U age/207Pb-206Pb age)*100*

Decay constants of Jaffey et al. (1971) used
bd = below detection; #N/A = not available
Uncertainties quoted without components related to systematic error unless otherwise stated
Total systematic uncertainties (ssys): 206Pb/238U = 2.0%, 207Pb/206Pb = 0.55% (2s)

								Ratios b								Ratios c									Dates c												
Identifier	Comments	f206c	207Pb	206Pb	U (µg g-1)	Th/U	206Pb/204Pb	207Pb/206Pb	1s	206Pb/238U	1s	207Pb/235U	1s	208Pb/232Th	1s	207Pb/206Pb	2s (%)	207Pb/235U	2s (%)	206Pb/238U	2s (%)	Rho	208Pb/232Th	*2s (%)*	207Pb/206Pb	2s	2ssys	206Pb/238U	2s	2ssys	207Pb/235U	2s	2ssys	208Pb/232Th	2s	2ssys	% conc d
			CPS	CPS														Data for Wetherill plot c								abs	abs		abs	abs		abs	abs		abs	abs	
RY REF. MAT. BB																																					
1.sSMPABC081		0,228556	174083,9	10099,84	425,8395	0,458261	59,76237	0,05815	0,00059	0,09197	0,00085	0,73814	0,001035	0,03007	0,00086	0,058017	2,181159	0,735705	2,901926	0,09197	1,914085	0,659591	0,03007	5,719987	530,4075	47,78248	52,60196	567,1775	10,40076	13,22595	559,8958	12,56692	14,82115	598,8	33,7	34,27239	101,3005
1.sSMPABC082		0	188694	11108,42	460,9268	0,470785	292,3267	0,05887	0,00062	0,0921	0,00085	0,7484	0,001052	0,03428	0,0009	0,05887	2,106336	0,747575	2,800661	0,0921	1,84582	0,659066	0,03428	5,250875	562,2918	45,89436	50,84178	567,9449	10,04253	12,95261	566,8166	12,23839	14,58206	681,3	35,26	35,88132	100,1991
1.sSMPABC101		0	170365	10048,13	420,0767	0,463868	10048,13	0,05898	0,00062	0,09124	0,00085	0,74278	0,001052	0,0349	0,001	0,05898	2,102408	0,741978	2,809217	0,09124	1,863218	0,663252	0,0349	5,730659	566,3579	45,7773	#NÚM!	562,8665	10,05045	#VALOR!	563,5595	12,22292	#VALOR!	693,4	38,92	#NOME?	99,87704
1.sSMPABC102		0	170032	9919,667	419,1178	0,449356	1102,185	0,05834	0,00061	0,09127	0,00085	0,73496	0,001046	0,0204	0,00092	0,05834	2,09119	0,734169	2,800424	0,09127	1,862605	0,665116	0,0204	9,019608	542,5539	45,71699	44,57471	563,0437	10,05017	9,596381	558,9969	12,11003	18,39217	408,1	36,42	295,3686	100,7239
1.sSMPABC121		0	165130	9785,604	408,1527	0,463822	9785,604	0,05926	0,00063	0,09102	0,00085	0,74456	0,001058	0,03582	0,00109	0,05926	2,126223	0,743703	2,830055	0,09102	1,867721	0,659959	0,03582	6,085985	576,6613	46,21545	51,00767	561,5667	10,05247	13,74131	564,5644	12,33066	15,35912	711,4	42,68	#VALOR!	99,46903
1.sSMPABC122		0	166464	9896,285	410,5929	0,471087	9896,285	0,05945	0,00063	0,09121	0,00085	0,7485	0,001058	0,01195	0,00085	0,05945	2,119428	0,747645	2,822382	0,09121	1,863831	0,660375	0,01195	14,22594	583,615	46,01383	50,38	562,6893	10,05072	13,73041	566,8572	12,33455	15,25265	240,1	33,8	#VALOR!	99,26473
1.sSMPABC141		1	155099,9	9174,92	385,0535	0,456547	305,8307	0,05914	0,00063	0,09062	0,00085	0,7397	0,001058	0,01999	0,00105	0,059155	3,995967	0,739122	4,935375	0,09062	2,89658	0,586902	0,01999	10,50525	572,8017	86,91261	38,93719	559,2028	15,53379	43,55778	561,893	21,52441	29,54939	400,1	41,58	56,84402	99,52123
1.sSMPABC142		0	157416	9185,224	385,612	0,45405	1837,045	0,05835	0,00062	0,09184	0,00087	0,73963	0,001068	0,03022	0,00115	0,05835	2,125107	0,73888	2,847031	0,09184	1,894599	0,665465	0,03022	7,610854	542,9286	46,45553	73,1629	566,41	10,28146	49,10944	561,7519	12,35853	45,71581	601,7	45,28	327,6649	100,8292
1.sSMPABC161		0	161750	9552,955	400,5905	0,462356	9552,955	0,05906	0,00063	0,09084	0,00086	0,74046	0,001066	0,02461	0,00112	0,05906	2,133424	0,739728	2,852474	0,09084	1,893439	0,663788	0,02461	9,101991	569,3085	46,4295	39,25301	560,5031	10,17251	44,84855	562,2466	12,39051	29,7145	491,4	44,22	68,67002	99,6899
1.sSMPABC162		0	164694	9743,297	407,075	0,473583	423,6216	0,05916	0,00064	0,09102	0,00086	0,74333	0,001072	0,02255	0,00107	0,05916	2,163624	0,742448	2,872667	0,09102	1,889695	0,657819	0,02255	9,490022	572,9891	47,05751	37,27484	561,5667	10,17083	46,04325	563,8333	12,50527	30,72638	450,7	42,14	108,9958	99,598
1.sSMPABC181		0	164230	9604,17	402,2162	0,482933	213,426	0,05848	0,00064	0,09186	0,00088	0,74149	0,001088	0,04076	0,00154	0,05848	2,188782	0,740688	2,908895	0,09186	1,915959	0,658655	0,04076	7,556428	547,7915	47,80802	39,51209	566,5281	10,39954	47,89009	562,8067	12,6466	31,0822	807,5	59,92	214,0128	100,6612
1.sSMPABC182		0	171482	10103,72	418,7463	0,481699	10103,72	0,05892	0,00064	0,09213	0,00088	0,74925	0,001088	0,03078	0,0013	0,05892	2,172437	0,748454	2,892905	0,09213	1,910344	0,660355	0,03078	8,447044	564,1413	47,31983	38,89795	568,122	10,39697	46,34861	567,3269	12,65255	30,39365	612,7	50,92	153,7509	100,1401

										Ratios b									Ratios c													Dates c					
Identifier	Comments	f206c	207Pb	206Pb	U (µg g-1)	Th/U	206Pb/204Pb	207Pb/206Pb	1s	206Pb/238U	1s	207Pb/235U	1s	208Pb/232Th	1s	207Pb/206Pb	2s (%)	207Pb/235U	2s (%)	206Pb/238U	2s (%)	Rho	208Pb/232Th	*2s (%)*	207Pb/206Pb	2s	2ssys	206Pb/238U	2s	2ssys	207Pb/235U	2s	2ssys	208Pb/232Th	2s	2ssys	% conc d
			CPS	CPS															Data for Wetherill plot c							abs	abs		abs	abs		abs	abs		abs	abs	
ARY REF. MAT. GJ																																					
~~1.sSMPABC083~~		~~#VALOR!~~	~~#VALOR!~~	~~3375,413~~	~~#VALOR!~~	~~#VALOR!~~	~~17,95432~~	~~0,79068~~	~~0,01025~~	~~-44,8147~~	~~36,56476~~	~~-4885,66~~	~~36,56476~~	~~-4,92035~~	~~1,13866~~	~~#VALOR!~~	~~#VALOR!~~	~~#VALOR!~~	~~#VALOR!~~	~~#VALOR!~~	~~#VALOR!~~	~~#VALOR!~~	~~-4,92035~~	~~-46,2837~~	~~#NÚM!~~	~~#NÚM!~~	~~#NÚM!~~	~~#VALOR!~~	~~#VALOR!~~	~~#VALOR!~~	~~#VALOR!~~	~~#VALOR!~~	~~#VALOR!~~	~~#NOME?~~	~~#VALOR!~~	~~#NOME?~~	~~#VALOR!~~
~~1.sSMPABC084~~		~~0~~	~~34749~~	~~4117,757~~	~~118,9357~~	~~0,157429~~	~~28,39832~~	~~0,1185~~	~~0,00135~~	~~0,065364~~	~~0,00062~~	~~1,067971~~	~~0,001486~~	~~0,177~~	~~0,00849~~	~~0,1185~~	~~2,278481~~	~~1,067971~~	~~2,958104~~	~~0,065364~~	~~1,886505~~	~~0,637741~~	~~0,177~~	~~9,59322~~	~~1933,729~~	~~40,78993~~	~~44,57471~~	~~408,1656~~	~~7,50491~~	~~9,596381~~	~~737,7447~~	~~15,67388~~	~~18,39217~~	~~3294~~	~~291,54~~	~~295,3686~~	~~55,40603~~
~~1.sSMPABC103~~		~~6,53551~~	~~6431,32~~	~~4735,947~~	~~0,117706~~	~~0~~	~~13,53128~~	~~0,78788~~	~~0,00959~~	~~12,2239~~	~~1,90597~~	~~1327,917~~	~~1,905994~~	~~-1,85707~~	~~0,11286~~	~~0,736388~~	~~3,151929~~	~~1241,131~~	~~31,17072~~	~~12,2239~~	~~31,01095~~	~~0,994874~~	~~-1,85707~~	~~-12,1546~~	~~4803,413~~	~~45,13574~~	~~47,37044~~	~~16644,81~~	~~2178,66~~	~~2181,702~~	~~7234,182~~	~~378,9191~~	~~379,6907~~	~~#NOME?~~	~~#VALOR!~~	~~#NOME?~~	~~230,3651~~
1.sSMPABC104		0	148341	7829,438	616,7614	0,194306	7829,438	0,05278	0,00064	0,053809	0,0005	0,391583	0,000812	0,01451	0,00151	0,05278	2,425161	0,391583	3,049071	0,053809	1,848087	0,606115	0,01451	20,81323	319,351	55,1183	59,65533	337,8635	6,118407	7,886821	335,5255	8,784767	10,21919	291,2	60,28	60,35575	100,7659
1.sSMPABC123		0,086231	405911	21523,12	1698,971	0,181418	137,9687	0,05307	0,00055	0,053451	0,00049	0,391115	0,000737	0,01468	0,00071	0,053024	2,099865	0,390778	2,799401	0,053451	1,851273	0,66131	0,01468	9,673025	329,8341	47,63609	52,8014	335,6732	6,090245	7,845136	334,9378	8,050623	9,589815	294,6	28,34	28,49942	100,2883
1.sSMPABC124		0	385647	20454,72	1613,254	0,174425	2922,102	0,05304	0,00055	0,053481	0,00049	0,391113	0,000737	0,02484	0,00091	0,05304	2,073906	0,391113	2,760732	0,053481	1,822239	0,660056	0,02484	7,326892	330,5083	47,04156	52,26448	335,8557	5,99786	7,775273	335,1818	7,943875	9,501929	495,9	35,72	36,2252	100,2698
1.sSMPABC143		0,015039	387435,3	20627,83	1619,53	0,189945	368,354	0,05325	0,00053	0,05352	0,00051	0,392953	0,000736	0,02005	0,00064	0,053242	1,991711	0,392894	2,749881	0,05352	1,89603	0,689495	0,02005	6,38404	339,1235	45,10806	50,51553	336,0991	6,245267	7,969926	336,4813	7,938464	9,50676	401,2	25,42	25,64521	99,95526
1.sSMPABC144		0,040129	347690,5	18427,15	1453,662	0,172583	312,3246	0,05302	0,00056	0,053511	0,0005	0,391183	0,000751	0,02557	0,00098	0,052999	2,118677	0,391026	2,822172	0,053511	1,864366	0,660614	0,02557	7,665233	328,7422	48,07217	53,19706	336,0383	6,139838	7,887001	335,1188	8,120082	9,649614	510,4	38,68	39,06624	100,3432
1.sSMPABC163		0	318005	17041,89	1336,254	0,17104	516,4208	0,05359	0,00057	0,053242	0,0005	0,393405	0,000758	0,01371	0,00081	0,05359	2,127263	0,393405	2,830862	0,053242	1,867762	0,659786	0,01371	11,81619	353,8595	48,05236	53,13584	334,3951	6,121719	7,858091	336,8535	8,180832	9,71315	275,2	32,42	32,41614	99,33876
1.sSMPABC164		0	356749	18982,61	1491,257	0,17829	180,7868	0,05321	0,00058	0,05352	0,0005	0,392658	0,000766	0,01528	0,00085	0,05321	2,180041	0,392658	2,864422	0,05352	1,858045	0,648663	0,01528	11,12565	337,7621	49,38528	54,3713	336,0991	6,120091	7,872182	336,3092	8,266899	9,782097	306,6	33,68	34,10274	100,0064
1.sSMPABC183		0	375245	19824,19	1563,924	0,186048	236,0023	0,05283	0,00058	0,05368	0,00051	0,391013	0,000772	0,0277	0,00123	0,05283	2,195722	0,391013	2,89685	0,05368	1,889589	0,652291	0,0277	8,880866	321,5026	49,88455	54,85254	337,0726	6,241604	7,975743	335,109	8,335628	9,83202	552,2	48,28	48,68417	100,6549
~~1.sSMPABC184~~		~~0~~	~~505548~~	~~33032,51~~	~~1957,244~~	~~0,232959~~	~~67,27598~~	~~0,06534~~	~~0,00067~~	~~0,057787~~	~~0,00056~~	~~0,520604~~	~~0,000873~~	~~0,03044~~	~~0,00101~~	~~0,06534~~	~~2,050811~~	~~0,520604~~	~~2,814359~~	~~0,057787~~	~~1,927379~~	~~0,684838~~	~~0,03044~~	~~6,636005~~	~~785,3033~~	~~43,07176~~	~~47,95671~~	~~362,1505~~	~~6,827086~~	~~8,658091~~	~~425,5547~~	~~9,867377~~	~~11,73748~~	~~606,1~~	~~39,64~~	~~40,13156~~	~~85,17485~~

										Ratios b									Ratios c													Dates c					
Identifier	Comments	f206c	207Pb	206Pb	U (µg g-1)	Th/U	206Pb/204Pb	207Pb/206Pb	1s	206Pb/238U	1s	207Pb/235U	1s	208Pb/232Th	1s	207Pb/206Pb	2s (%)	207Pb/235U	2s (%)	206Pb/238U	2s (%)	Rho	208Pb/232Th	*2s (%)*	207Pb/206Pb	2s	2ssys	206Pb/238U	2s	2ssys	207Pb/235U	2s	2ssys	208Pb/232Th	2s	2ssys	% conc d
			CPS	CPS															Data for Wetherill plot c							abs	abs		abs	abs		abs	abs		abs	abs	
RY REF. MAT. Ples																																					
1.sSMPABC085		0	98482	5909,905	227,0775	0,047664	5909,905	0,06001	0,00064	0,097027	0,00091	0,802818	0,001113	-0,10043	0,01313	0,06001	2,132978	0,807312	2,833556	0,09757	1,865327	0,658299	-0,10043	-26,1476	603,9352	46,1503	51,00767	600,1524	10,69837	13,74131	600,9448	12,934	15,35912	******	590,02	#VALOR!	99,86815
1.sSMPABC086		0,011669	100830,8	6049,14	233,1384	0,046936	102,5278	0,06	0,00063	0,096758	0,00091	0,800463	0,001107	-0,06221	0,01287	0,059993	2,100605	0,80485	2,81281	0,0973	1,870657	0,665049	-0,06221	-41,376	603,3221	45,45454	50,38	598,5664	10,70189	13,73041	599,5606	12,81687	15,25265	******	554,62	#VALOR!	99,83419
1.sSMPABC105		0	100963	6047,684	231,6821	0,05521	6047,684	0,0599	0,00065	0,097494	0,00092	0,805207	0,001126	-0,05653	0,01153	0,0599	2,170284	0,809714	2,869225	0,09804	1,876785	0,654109	-0,05653	-40,7925	599,9642	46,98873	51,77356	602,9123	10,8114	13,85319	602,2933	13,11955	15,52353	******	494,1	#VALOR!	100,1028
1.sSMPABC106		0	101367	6073,911	232,5854	0,049447	404,9274	0,05992	0,00064	0,097504	0,00092	0,805558	0,001121	0,042	0,01224	0,05992	2,136182	0,810067	2,843391	0,09805	1,876594	0,659984	0,042	58,28571	600,6869	46,24478	51,0982	602,971	10,8113	13,85361	602,4913	13,00381	15,42657	831,5	474,66	480,5202	100,0796
1.sSMPABC125		0	98729	5914,854	226,5326	0,048437	5914,854	0,05991	0,00064	0,097504	0,00093	0,805424	0,001129	0,04502	0,01352	0,05991	2,136538	0,809931	2,857161	0,09805	1,896991	0,663943	0,04502	60,06219	600,3256	46,2553	51,10828	602,971	10,92892	13,94566	602,4155	13,06598	15,47879	890	523,12	529,8876	100,0922
1.sSMPABC126		0,102212	97660,82	5865,367	224,4021	0,056229	108,6179	0,06012	0,00065	0,097365	0,00093	0,807093	0,001135	0,18691	0,0125	0,060059	2,191153	0,81078	2,907511	0,09791	1,911143	0,657312	0,18691	13,37542	605,6847	47,39512	52,134	602,1491	10,99618	13,9915	602,8916	13,30549	15,68476	3463,4	425,6	431,4715	99,87683
1.sSMPABC145		0	95860	5773,648	221,1677	0,046366	5773,648	0,06023	0,00067	0,096967	0,00093	0,805266	0,001146	-0,06582	0,01484	0,06023	2,224805	0,809773	2,93058	0,09751	1,907497	0,650894	-0,06582	-45,0927	611,8475	48,07342	52,74219	599,8	10,9343	13,92292	602,3267	13,4025	15,76441	******	642,28	#VALOR!	99,58052
1.sSMPABC146		0,023734	95712,72	5688,771	218,9864	0,042938	123,6689	0,05945	0,00065	0,097783	0,00094	0,801522	0,001143	-0,12404	0,01587	0,059436	2,188688	0,805816	2,906572	0,09833	1,912539	0,658005	-0,12404	-25,5885	583,0997	47,52162	52,28337	604,6146	11,04724	14,05255	600,1044	13,25578	15,6275	******	732,32	#VALOR!	100,7516
1.sSMPABC165		0	93956	5627,025	215,603	0,047946	5627,025	0,05989	0,00067	0,097494	0,00093	0,805073	0,001146	0,28192	0,01779	0,05989	2,237435	0,809578	2,933501	0,09804	1,897185	0,646731	0,28192	12,6206	599,6027	48,44556	53,09982	602,9123	10,92902	13,94523	602,2175	13,41415	15,77377	5019,9	560,92	570,763	100,1154
1.sSMPABC166		0	94159	5662,722	216,422	0,038527	5662,722	0,06014	0,00067	0,097335	0,00093	0,807114	0,001146	0,13089	0,01894	0,06014	2,228134	0,811631	2,928424	0,09788	1,900286	0,648911	0,13089	28,94033	608,6154	48,1714	52,83633	601,9729	10,93061	13,93849	603,3686	13,40965	15,77606	2486,1	676,9	688,9397	99,76868
1.sSMPABC185		0,067819	91670,17	5491,9	210,6584	0,037542	74,21486	0,05995	0,00068	0,097355	0,00095	0,804728	0,001168	0,31122	0,02375	0,059909	2,281359	0,808683	2,998387	0,0979	1,945695	0,648914	0,31122	15,26252	600,3018	49,39081	53,96258	602,0903	11,19412	14,1472	601,7152	13,70443	16,01957	5476,7	732,06	747,473	100,0624
1.sSMPABC186		0	92448	5549,653	212,4242	0,067291	241,2893	0,06003	0,00069	0,097365	0,00093	0,805885	0,001158	0,03785	0,01108	0,06003	2,298851	0,810395	2,982212	0,09791	1,899704	0,637012	0,03785	58,5469	604,6561	49,73321	54,26979	602,1491	10,93031	13,93975	602,6755	13,64605	15,97453	750,9	431,5	436,2971	99,91265

Supplementary file 3 - U-Pb dating of the MC-04 Sample

a concentration uncertainty ca. 20%

b data not corrected for common-Pb

c data corrected/not corrected for common-Pb

*d Concordance calculated as (206Pb-238U age/207Pb-206Pb age)*100*

Decay constants of Jaffey et al. (1971) used
bd = below detection; #N/A = not available
Uncertainties quoted without components related to systematic error unless otherwise stated
Total systematic uncertainties (ssys): 206Pb/238U = 2.0%, 207Pb/206Pb = 0.55% (2s)

20th July 2017, Dept. Geology, Univ. of Ouro Preto								Ratios b								Ratios c									Dates c														
Identifier	Comments	f206c	207Pb	206Pb	U (µg g-1) a	Th/U	206Pb/204Pb	207Pb/206Pb	1s	206Pb/238U	1s	207Pb/235U	1s	208Pb/232Th	1s	207Pb/206Pb	2s (%)	207Pb/235U	2s (%)	206Pb/238U	2s (%)	Rho	208Pb/232Th	2s (%)	207Pb/206Pb	2s	2ssys	206Pb/238U	2s	2ssys	207Pb/235U	2s	2ssys	208Pb/232Th	2s	2ssys	% conc d	ti estimate age	
			CPS	CPS														Data for Wetherill plot c								abs	abs		abs	abs		abs	abs		abs	abs			
~~1.sSMPABC007~~		~~1~~	~~29002,54~~	~~3491,869~~	~~16,52597~~	~~3,053164~~	~~30,9015~~	~~0,12026~~	~~0,00137~~	~~0,28211~~	~~0,00254~~	~~4,677794~~	~~0,002886~~	~~0,07428~~	~~0,00216~~	~~0,120399~~	~~2,817542~~	~~4,683191~~	~~3,42103~~	~~0,28211~~	~~1,940336~~	~~0,567179~~	~~0,07428~~	~~5,815832~~	~~1962,139~~	~~50,27188~~	~~53,36848~~	~~1601,981~~	~~27,52487~~	~~34,8338~~	~~1764,241~~	~~29,022~~	~~32,88502~~	~~1448,3~~	~~81,24~~	~~82,73079~~	~~90,70481~~	~~1962,139~~	~~50,27188~~
~~1.sSMPABC008~~		~~0,238381~~	~~433858,2~~	~~53916,89~~	~~276,6117~~	~~1,539468~~	~~122,2605~~	~~0,12457~~	~~0,00124~~	~~0,252131~~	~~0,00217~~	~~4,330537~~	~~0,002499~~	~~0,06737~~	~~0,00093~~	~~0,124273~~	~~2,032147~~	4,320214	~~2,672851~~	~~0,252131~~	~~1,736234~~	~~0,649581~~	~~0,06737~~	~~2,760873~~	~~2018,464~~	~~36,02179~~	~~40,17866~~	~~1449,459~~	~~22,52947~~	~~29,81265~~	~~1697,227~~	~~22,26999~~	~~26,94469~~	~~1317,8~~	~~35,34~~	~~37,52309~~	~~85,30974~~	~~2018,464~~	~~36,02179~~
1.sSMPABC009		0	295874	38120,41	125,6638	0,96214	7624,081	0,12884	0,00128	0,378483	0,0033	6,723545	0,00354	0,10365	0,00164	0,12884	1,986961	6,723545	2,646674	0,378483	1,748391	0,660599	0,10365	3,164496	2082,204	34,96528	39,17584	2069,193	30,96109	40,8565	2075,721	23,65997	28,721	1993,4	60,16	63,13146	99,57311	2082,204	34,96528
1.sSMPABC010		0,097948	191239,3	20776,91	95,58258	1,507114	273,3803	0,10875	0,00112	0,321624	0,00276	4,822571	0,002979	0,10082	0,00166	0,108643	2,069659	4,817848	2,692283	0,321624	1,721889	0,639564	0,10082	3,292997	1776,794	37,76165	41,9706	1797,654	27,0153	35,88089	1788,019	22,88389	27,62581	1941,5	60,98	63,83717	100,4327	1776,794	37,76165
1.sSMPABC011		0	121826	13337,51	61,0092	3,054076	952,6793	0,10948	0,00113	0,320992	0,00279	4,845409	0,00301	0,09202	0,00141	0,10948	2,064304	4,845409	2,701697	0,320992	1,742933	0,645125	0,09202	3,064551	1790,777	37,59898	41,81047	1794,572	27,3054	36,07727	1792,818	22,98759	27,72089	1779,3	52,1	55,03407	99,99187	1790,777	37,59898
1.sSMPABC012		0	88521	12222,98	34,85358	2,231271	12222,98	0,13808	0,00145	0,408271	0,00359	7,772857	0,003872	0,12584	0,0023	0,13808	2,100232	7,772857	2,742273	0,408271	1,763261	0,642993	0,12584	3,655435	2203,264	36,46463	40,41729	2207,012	32,97594	43,36142	2205,069	24,96771	29,97572	2395,7	82,54	85,78066	99,97281	2203,264	36,46463
1.sSMPABC013		0,040696	166895,9	26936,05	57,3641	0,554157	518,0009	0,16146	0,00166	0,467687	0,00404	10,4117	0,004368	0,1098	0,00386	0,161394	2,057692	10,40746	2,689777	0,467687	1,732284	0,644025	0,1098	7,030965	2470,32	34,74002	38,65506	2473,41	35,61891	47,19532	2471,714	25,2223	30,46505	2105,7	140,6	142,5219	99,94887	2470,32	34,74002
~~1.sSMPABC014~~		~~0,133914~~	~~543443,7~~	~~64132,75~~	~~410,4831~~	~~1,240909~~	~~201,0431~~	~~0,11817~~	~~0,00118~~	~~0,212818~~	~~0,00184~~	~~3,467508~~	~~0,002186~~	~~0,05329~~	~~0,00079~~	~~0,118012~~	~~2,012638~~	~~3,462865~~	~~2,659403~~	~~0,212818~~	~~1,738308~~	~~0,653646~~	~~0,05329~~	~~2,964909~~	~~1926,334~~	~~36,06228~~	~~40,30063~~	~~1243,815~~	~~19,65075~~	~~25,98813~~	~~1518,801~~	~~21,1591~~	~~25,63886~~	~~1049,4~~	~~30,3~~	~~32,04571~~	~~81,81058~~	~~1926,334~~	~~36,06228~~
1.sSMPABC015		0,202013	156229,6	24830,86	53,71523	1,242672	172,4366	0,15926	0,00164	0,467537	0,00404	10,26653	0,00436	0,11334	0,00241	0,158938	2,079292	10,24579	2,708024	0,467537	1,734918	0,640658	0,11334	4,252691	2444,397	35,19668	39,08528	2472,749	35,66538	47,22604	2457,221	25,35995	30,56673	2170,1	87,34	90,13551	100,512	2444,397	35,19668
1.sSMPABC016		0,112201	161765,5	16528,43	88,0483	1,635745	194,4521	0,10229	0,00106	0,295335	0,00257	4,165327	0,00278	0,0772	0,00138	0,102175	2,086458	4,160653	2,721039	0,295335	1,746638	0,641901	0,0772	3,57513	1664,008	38,61184	42,84995	1668,133	25,67066	33,88525	1666,308	22,51156	27,08521	1503,2	51,68	53,97895	100,0071	1664,008	38,61184
1.sSMPABC017		0	161539	17851,67	80,01481	1,878992	238,0223	0,11051	0,00115	0,324531	0,00279	4,944923	0,003018	0,08919	0,0017	0,11051	2,08126	4,944923	2,70251	0,324531	1,723925	0,637898	0,08919	3,812087	1807,815	37,82849	42,00035	1811,821	27,23243	36,15096	1809,959	23,07511	27,82406	1726,9	62,92	65,4339	99,99644	1807,815	37,82849
1.sSMPABC018		0	75988	8389,835	37,68906	1,761256	8389,835	0,11041	0,00117	0,3241	0,00286	4,933886	0,00309	0,09905	0,00215	0,11041	2,119373	4,933886	2,760973	0,3241	1,769528	0,640907	0,09905	4,341242	1806,169	38,52901	42,63395	1809,722	27,92625	36,66204	1808,072	23,57114	28,2364	1909	78,96	81,36303	99,9849	1806,169	38,52901
1.sSMPABC019		0	277596	62803,32	74,26143	0,852637	62803,32	0,22624	0,00221	0,600896	0,00526	18,74435	0,005705	0,12154	0,00239	0,22624	1,953678	18,74435	2,626407	0,600896	1,755323	0,668336	0,12154	3,932862	3025,638	31,33682	35,23292	3033,449	42,54327	56,06207	3028,753	25,63494	31,20271	2318,5	86,16	89,20553	100,029	3025,638	31,33682
1.sSMPABC020		0	50498	5488,628	25,44865	2,009467	288,8751	0,10869	0,00117	0,318977	0,00285	4,780243	0,003081	0,07751	0,00229	0,10869	2,152912	4,780243	2,800909	0,318977	1,791664	0,639672	0,07751	5,908915	1777,575	39,27684	43,33814	1784,73	27,93651	36,48581	1781,434	23,78548	28,3708	1509	85,88	87,43282	100,0793	1777,575	39,27684
~~1.sSMPABC027~~		~~0,643745~~	~~147911,2~~	~~25174,08~~	~~56,54738~~	~~1,106191~~	~~69,35007~~	~~0,1713~~	~~0,00178~~	~~0,420473~~	~~0,0037~~	~~9,931088~~	~~0,004106~~	~~0,12365~~	~~0,00288~~	~~0,170197~~	~~2,224279~~	~~9,867157~~	~~2,85575~~	~~0,420473~~	~~1,79106~~	~~0,627177~~	~~0,12365~~	~~4,65831~~	~~2559,584~~	~~37,22154~~	~~40,83804~~	~~2262,627~~	~~34,20438~~	~~44,6847~~	~~2422,445~~	~~26,66933~~	~~31,63816~~	~~2356,4~~	~~103,74~~	~~106,2808~~	~~93,28912~~	~~2559,584~~	~~37,22154~~
1.sSMPABC028		0	456462	79479,16	144,446	0,749532	580,1399	0,17412	0,00179	0,507983	0,00441	12,19548	0,004759	0,13559	0,00289	0,17412	2,056053	12,19548	2,694049	0,507983	1,740847	0,646182	0,13559	4,262851	2597,645	34,27935	38,14832	2648,011	37,8485	50,04618	2619,561	25,59677	30,90307	2570	102,74	105,9378	100,9635	2597,645	34,27935
~~1.sSMPABC029~~		~~0~~	~~452420~~	~~59271,54~~	~~345,0785~~	~~2,062229~~	~~122,2094~~	~~0,13101~~	~~0,00131~~	~~0,210753~~	~~0,00186~~	~~3,806968~~	~~0,002275~~	~~0,05271~~	~~0,00096~~	~~0,13101~~	~~1,999847~~	~~3,806968~~	~~2,670464~~	~~0,210753~~	~~1,769743~~	~~0,66271~~	~~0,05271~~	~~3,642573~~	~~2111,547~~	~~35,0759~~	~~39,2484~~	~~1232,828~~	~~19,84597~~	~~26,04767~~	~~1594,219~~	~~21,69292~~	~~26,25238~~	~~1038,2~~	~~36,92~~	~~38,21784~~	~~77,24877~~	~~2111,547~~	~~35,0759~~
1.sSMPABC030		0	46599	5479,576	21,95514	0,939452	421,5059	0,11759	0,00133	0,341185	0,00318	5,531739	0,003447	0,15	0,00564	0,11759	2,262097	5,531739	2,934318	0,341185	1,868994	0,636943	0,15	7,52	1919,917	40,56294	44,37902	1892,368	30,6626	39,37086	1905,542	25,54147	30,06383	2824,9	198,32	201,0108	99,20037	1919,917	40,56294
~~1.sSMPABC031~~		~~0,121782~~	~~365772,4~~	~~55131,5~~	~~163,8636~~	~~1,744316~~	~~360,3366~~	~~0,15091~~	~~0,00151~~	~~0,358821~~	~~0,00317~~	~~7,466165~~	~~0,003511~~	~~0,07767~~	~~0,00148~~	~~0,150726~~	~~2,010139~~	~~7,457072~~	~~2,680234~~	~~0,358821~~	~~1,77285~~	~~0,661454~~	~~0,07767~~	~~3,810995~~	~~2354,181~~	~~34,34311~~	~~38,38892~~	~~1976,585~~	~~30,19138~~	~~39,60671~~	~~2167,846~~	~~24,27713~~	~~29,35355~~	~~1511,9~~	~~55,62~~	~~57,49131~~	~~91,07006~~	~~2354,181~~	~~34,34311~~
1.sSMPABC032		0	213143	13240,44	339,6894	3,383527	93,90385	0,06212	0,00071	0,100865	0,00095	0,863916	0,001186	0,02561	0,00063	0,06212	2,285898	0,863916	2,965198	0,100865	1,888668	0,636945	0,02561	4,919953	678,2424	48,85234	53,35708	619,4739	11,13826	14,23706	632,2584	14,03181	16,45223	511,2	24,82	25,44129	97,92419	619,4739	11,13826
~~1.sSMPABC033~~		~~1,808211~~	~~51660,12~~	~~8554,94~~	~~90,14535~~	~~4,168617~~	~~21,65808~~	~~0,16865~~	~~0,00182~~	~~0,092122~~	~~0,00083~~	~~2,142148~~	~~0,002~~	~~0,01981~~	~~0,00047~~	~~0,1656~~	~~3,098477~~	~~2,103413~~	~~5,325134~~	~~0,092122~~	4,330876	~~0,81329~~	~~0,01981~~	~~4,745078~~	~~2513,662~~	~~52,08563~~	~~54,75199~~	~~568,0728~~	~~23,536~~	~~24,91516~~	~~1149,924~~	~~37,2931~~	~~39,42339~~	~~396,5~~	~~18,58~~	~~19,06205~~	~~49,35439~~	~~2513,662~~	~~52,08563~~
1.sSMPABC034		0	22202	1346,551	34,46885	1,346297	46,4328	0,06065	0,00092	0,103542	0,00097	0,865859	0,001337	0,03522	0,00265	0,06065	3,0338	0,865859	3,568329	0,103542	1,878571	0,526457	0,03522	15,04827	626,8442	65,39026	68,8783	635,1309	11,34541	14,53221	633,3162	16,93039	18,99729	699,7	103,52	104,0519	100,2317	635,1309	11,34541
1.sSMPABC035		1,405478	18250,51	2103,139	8,549492	3,125177	17,09869	0,11688	0,00148	0,34315	0,0033	5,530008	0,003617	0,11705	0,00444	0,115237	3,542294	5,452285	4,115968	0,34315	2,096031	0,509244	0,11705	7,586501	1883,597	63,79478	66,30793	1901,807	34,54531	42,53223	1893,115	35,92949	39,30535	2237,3	160,76	162,7142	100,3503	1883,597	63,79478
~~1.sSMPABC036~~		~~0,121639~~	~~343489,8~~	~~57114,63~~	~~132,3949~~	~~1,186097~~	~~361,485~~	~~0,16648~~	~~0,00168~~	~~0,417054~~	~~0,00371~~	~~9,57317~~	~~0,004073~~	~~0,0706~~	~~0,00156~~	~~0,166277~~	~~2,026008~~	~~9,561525~~	~~2,70003~~	~~0,417054~~	~~1,784784~~	~~0,661024~~	~~0,0706~~	~~4,419263~~	~~2520,518~~	~~34,03421~~	~~37,98432~~	~~2247,092~~	~~33,88796~~	~~44,3356~~	~~2393,479~~	~~25,12189~~	~~30,30712~~	~~1378,9~~	~~59,04~~	~~60,53229~~	~~93,77049~~	~~2520,518~~	~~34,03421~~
1.sSMPABC037		0	361927	69388,64	108,0375	0,828957	17347,16	0,19172	0,00201	0,538513	0,00473	14,23524	0,005139	0,15555	0,00396	0,19172	2,096808	14,23524	2,738397	0,538513	1,761311	0,64319	0,15555	5,09161	2756,973	34,43778	38,18234	2777,22	39,7967	52,36355	2765,508	26,31371	31,60969	2922,2	138,68	141,6838	100,2997	2756,973	34,43778
1.sSMPABC038		0	513698	92296,12	162,3562	0,373031	6592,58	0,17967	0,00187	0,508614	0,00449	12,59985	0,004864	0,14196	0,0037	0,17967	2,081594	12,59985	2,732532	0,508614	1,770226	0,647833	0,14196	5,212736	2649,827	34,53203	38,33918	2650,711	38,521	50,57564	2650,21	26,0314	31,29038	2683	131,08	133,7324	99,89683	2649,827	34,53203
1.sSMPABC039		0	97469	12874,68	39,77244	0,671838	12874,68	0,13209	0,00146	0,393943	0,00353	7,174723	0,00382	0,10666	0,00539	0,13209	2,210614	7,174723	2,848768	0,393943	1,796849	0,630746	0,10666	10,10688	2125,935	38,7102	42,51589	2141,091	32,7569	42,73515	2133,367	25,70185	30,50941	2048,5	196,74	198,8937	100,2479	2125,935	38,7102
1.sSMPABC040		0	42499	4757,763	20,68352	1,983241	365,9818	0,11195	0,00127	0,330297	0,00302	5,098347	0,003276	0,04053	0,00262	0,11195	2,26887	5,098347	2,917085	0,330297	1,83347	0,628528	0,04053	12,92869	1831,312	41,1202	44,96663	1839,819	29,35473	37,97971	1835,831	25,0586	29,54294	802,9	101,84	102,216	100,11	1831,312	41,1202
~~1.sSMPABC047~~		~~0,167886~~	~~343666~~	~~38700,44~~	~~224,5739~~	~~1,976672~~	~~156,6819~~	~~0,1128~~	~~0,00116~~	~~0,245995~~	~~0,00222~~	~~3,825932~~	~~0,002505~~	~~0,0473~~	~~0,00115~~	~~0,112611~~	~~2,081662~~	~~3,819509~~	~~2,761686~~	~~0,245995~~	~~1,814827~~	~~0,657144~~	~~0,0473~~	~~4,862579~~	~~1841,968~~	~~37,67843~~	~~41,83222~~	~~1417,79~~	~~23,09009~~	~~29,99409~~	~~1596,865~~	~~22,45774~~	~~26,89758~~	~~934,2~~	~~44,3~~	~~45,45913~~	~~88,6941~~	~~1841,968~~	~~37,67843~~
1.sSMPABC048		0,4375	85987,19	11340,89	35,21903	3,881578	74,12346	0,13247	0,00151	0,39247	0,0036	7,168443	0,003904	0,07623	0,00228	0,13189	2,383952	7,137081	3,019346	0,39247	1,852895	0,613674	0,07623	5,981897	2123,287	41,75789	45,31032	2134,272	33,69025	43,40971	2128,681	27,2438	31,82263	1484,8	85,48	86,94944	100,1487	2123,287	41,75789
~~1.sSMPABC049~~		~~1,255213~~	~~53416,49~~	~~6539,449~~	~~72,40572~~	~~2,186074~~	~~24,95973~~	~~0,12398~~	~~0,00137~~	~~0,118591~~	~~0,00109~~	~~2,02724~~	~~0,001751~~	~~0,01684~~	~~0,00072~~	~~0,122424~~	~~3,035487~~	~~2,001793~~	~~4,137137~~	~~0,118591~~	~~2,811~~	~~0,679455~~	~~0,01684~~	~~8,551069~~	~~1991,848~~	~~53,97304~~	~~56,84895~~	~~722,4494~~	~~19,19492~~	~~21,76983~~	~~1116,119~~	~~28,38203~~	~~31,01185~~	~~337,5~~	~~28,62~~	~~28,80104~~	~~64,67106~~	~~1991,848~~	~~53,97304~~
1.sSMPABC050		0,158301	53277,34	5904,423	25,8773	2,732932	115,773	0,111	0,00125	0,330958	0,00306	5,06521	0,003305	0,07563	0,00239	0,110824	2,273841	5,057192	2,935475	0,330958	1,856519	0,632442	0,07563	6,320243	1812,975	41,30267	45,15002	1843,024	29,76949	38,32469	1828,955	25,18446	29,63941	1473,6	89,76	91,14928	100,6618	1812,975	41,30267
~~1.sSMPABC051~~		~~0,257759~~	~~362080,3~~	~~45342,01~~	~~183,1972~~	~~1,097574~~	~~135,3493~~	~~0,12555~~	~~0,0013~~	~~0,317714~~	~~0,00288~~	~~5,499886~~	~~0,00316~~	~~0,05063~~	~~0,00137~~	~~0,125226~~	~~2,116658~~	~~5,485709~~	~~2,794785~~	~~0,317714~~	~~1,824988~~	~~0,652998~~	~~0,05063~~	~~5,411811~~	~~2032~~	~~37,46143~~	~~41,46238~~	~~1778,553~~	~~28,3715~~	~~36,7756~~	~~1898,361~~	~~24,28062~~	~~28,9817~~	~~998,3~~	~~52,84~~	~~53,70178~~	~~93,58519~~	~~2032~~	~~37,46143~~
1.sSMPABC052		0,053229	139185,1	24100,98	43,82756	0,765979	463,4804	0,17325	0,00197	0,510499	0,00466	12,19466	0,005059	0,13458	0,00546	0,173158	2,276212	12,18817	2,92099	0,510499	1,830585	0,6267	0,13458	8,114133	2588,401	37,98389	41,51503	2658,761	39,93666	51,71617	2618,998	27,78146	32,74864	2552,1	194,56	197,0299	101,3953	2588,401	37,98389
1.sSMPABC053		0,021854	59179,93	6598,304	28,6384	2,100744	117,8269	0,11152	0,00132	0,332181	0,00307	5,107748	0,003342	0,08804	0,00326	0,111496	2,36813	5,106631	3,007116	0,332181	1,853296	0,616303	0,08804	7,405725	1823,938	42,95776	46,65933	1848,946	29,80038	38,39099	1837,209	25,84891	30,22272	1705,5	121,3	122,6338	100,5313	1823,938	42,95776
1.sSMPABC054		0,086693	428688,6	79765,47	131,3535	0,793357	521,343	0,18623	0,00217	0,524626	0,00477	13,47104	0,00524	0,12681	0,0052	0,186069	2,334334	13,45936	2,962152	0,524626	1,823521	0,615607	0,12681	8,201246	2707,719	38,51419	41,9257	2718,771	40,50707	52,53775	2712,435	28,38506	33,33175	2413,2	186,42	188,872	100,1106	2707,719	38,51419
1.sSMPABC055		0	125503	19548,35	44,40389	2,080826	368,8367	0,15576	0,00171	0,454342	0,00416	9,757533	0,004498	0,09344	0,00295	0,15576	2,195686	9,757533	2,862179	0,454342	1,836037	0,641482	0,09344	6,314212	2410,145	37,29687	41,01137	2414,527	37,01496	47,87204	2412,15	26,70212	31,6565	1805,5	109,16	110,7026	99,97968	2410,145	37,29687
1.sSMPABC056		0,067447	197628,3	25563,75	84,31878	0,928695	287,2332	0,12944	0,00152	0,376768	0,00346	6,724257	0,003779	0,08487	0,00344	0,129353	2,352476	6,719722	2,987736	0,376768	1,841853	0,616471	0,08487	8,106516	2089,19	41,36471	44,97469	2061,17	32,51266	41,99145	2075,218	26,74739	31,33038	1646,5	128,1	129,5838	99,21096	2089,19	41,36471
1.sSMPABC057		0	242260	30987,48	102,3667	0,744826	30987,48	0,12791	0,00146	0,380428	0,00355	6,709317	0,003839	0,06463	0,00265	0,12791	2,282855	6,709317	2,951766	0,380428	1,871228	0,633935	0,06463	8,200526	2069,447	40,23039	43,94957	2078,283	33,26572	42,69564	2073,848	26,41575	31,04408	1265,9	100,62	101,6904	100,101	2069,447	40,23039
1.sSMPABC058		0,199572	150307	9207,43	236,9789	1,248754	73,65944	0,06138	0,00067	0,101957	0,00094	0,862874	0,001154	0,02356	0,00073	0,061258	2,282468	0,861152	2,963381	0,101957	1,889964	0,637773	0,02356	6,196944	648,2881	49,02107	53,55439	625,8703	11,25563	14,38328	630,7514	13,99884	16,41628	470,7	28,78	29,25065	99,17195	625,8703	11,25563
1.sSMPABC059		0	65845	7175,788	32,19023	1,411129	121,6235	0,10898	0,00124	0,328813	0,00306	4,940792	0,003302	0,1048	0,00381	0,10898	2,275647	4,940792	2,942965	0,328813	1,866138	0,634101	0,1048	7,270992	1782,435	41,49103	45,35005	1832,624	29,77766	38,2569	1809,253	25,15025	29,57808	2014,4	139,3	141,1843	101,1844	1782,435	41,49103
1.sSMPABC060		0	197316	36799,43	60,73189	1,136957	511,1033	0,1865	0,00197	0,52227	0,00482	13,42998	0,005207	0,10121	0,00321	0,1865	2,112601	13,42998	2,808551	0,52227	1,850643	0,658932	0,10121	6,343247	2711,54	34,84338	38,57833	2708,801	40,98969	52,84927	2710,37	26,88937	32,05652	1948,6	118	119,6044	99,81935	2711,54	34,84338

a concentration uncertainty ca. 10%

b data not corrected for common-Pb

c data corrected/not corrected for common-Pb

*d Concordance calculated as (206Pb-238U age/207Pb-206Pb age)*100*

Decay constants of Jaffey et al. (1971) used
bd = below detection; #N/A = not available
Uncertainties quoted without components related to systematic error unless otherwise stated
Total systematic uncertainties (ssys): 206Pb/238U = 2.0%, 207Pb/206Pb = 0.55% (2s)

								Ratios b								Ratios c									Dates c												
Identifier	Comments	f206c	207Pb	206Pb	U (µg g-1) a	Th/U	206Pb/204Pb	207Pb/206Pb	1s	206Pb/238U	1s	207Pb/235U	1s	208Pb/232Th	1s	207Pb/206Pb	2s (%)	207Pb/235U	2s (%)	206Pb/238U	2s (%)	Rho	208Pb/232Th	2s (%)	207Pb/206Pb	2s	2ssys	206Pb/238U	2s	2ssys	207Pb/235U	2s	2ssys	208Pb/232Th	2s	2ssys	% conc d
			CPS	CPS														Data for Wetherill plot c								abs	abs		abs	abs		abs	abs		abs	abs	
RY REF. MAT. BB																																					
1.sSMPABC001		0,060149	285869,9	16804,76	500,1954	0,45987	186,7195	0,05882	0,0006	0,09163	0,00079	0,74396	0,000992	0,03041	0,0006	0,058785	2,051582	0,742682	2,683193	0,09163	1,729317	0,6445	0,03041	3,94607	559,1286	44,72527	49,79413	565,17	9,364193	12,40857	563,9692	11,67781	14,09647	605,5	23,62	24,31016	100,2129
1.sSMPABC002		0,033367	281427,9	16601,52	493,7161	0,458872	448,6897	0,05901	0,0006	0,09139	0,00078	0,74441	0,000984	0,02314	0,00056	0,05899	2,037376	0,743328	2,658943	0,09139	1,708531	0,64256	0,02314	4,840104	566,7384	44,35846	49,45248	563,7525	9,229341	12,29412	564,3459	11,57748	14,01539	462,5	22	22,72779	99,89486
1.sSMPABC021		0	223948	13186,06	394,1716	0,460761	1318,606	0,05888	0,00062	0,09109	0,00079	0,74035	0,001004	0,0336	0,00082	0,05888	2,105978	0,739503	2,728333	0,09109	1,734548	0,635754	0,0336	4,880952	562,6619	45,8837	52,43249	561,9803	9,341774	7,603196	562,1153	11,84603	9,398926	668	31,96	-38,6303	99,97598
1.sSMPABC022		0	223705	13178,46	394,958	0,44937	244,0456	0,05891	0,00062	0,09081	0,00079	0,73853	0,001004	0,02726	0,00076	0,05891	2,104906	0,737605	2,73091	0,09081	1,739896	0,637112	0,02726	5,575935	563,7716	45,85173	51,50773	560,3258	9,344174	7,595788	561,0071	11,83967	9,326324	543,5	29,84	37,82728	99,87856
1.sSMPABC041		0,02361	202990,9	11989,87	354,7535	0,460621	399,6624	0,05908	0,00064	0,09174	0,00082	0,74811	0,00104	0,02905	0,00092	0,059066	2,16854	0,747133	2,810862	0,09174	1,788402	0,636247	0,02905	6,333907	569,5315	47,19195	50,53457	565,8195	9,695034	13,21888	566,5596	12,27905	14,9653	578,8	36,04	314,7671	99,86938
1.sSMPABC042		0	190858	11203,36	334,2054	0,451051	11203,36	0,0587	0,00063	0,09156	0,00082	0,7419	0,001034	0,02508	0,00089	0,0587	2,146508	0,741046	2,795676	0,09156	1,791175	0,640695	0,02508	7,097289	555,9874	46,81957	50,84014	564,7566	9,692614	13,2483	563,0158	12,15482	15,02818	500,6	35	332,2049	100,3092

								Ratios b								Ratios c									Dates c												
Identifier	Comments	f206c	207Pb	206Pb	U (µg g-1) a	Th/U	206Pb/204Pb	207Pb/206Pb	1s	206Pb/238U	1s	207Pb/235U	1s	208Pb/232Th	1s	207Pb/206Pb	2s (%)	207Pb/235U	2s (%)	206Pb/238U	2s (%)	Rho	208Pb/232Th	2s (%)	207Pb/206Pb	2s	2ssys	206Pb/238U	2s	2ssys	207Pb/235U	2s	2ssys	208Pb/232Th	2s	2ssys	% conc d
			CPS	CPS														Data for Wetherill plot c								abs	abs		abs	abs		abs	abs		abs	abs	
ARY REF. MAT. Ples																																					
1.sSMPABC003		0	211991	11214,32	628,5935	0,156301	11214,32	0,0529	0,00055	0,054212	0,00047	0,395416	0,000723	-0,00473	0,00095	0,0529	2,079395	0,395416	2,710391	0,054212	1,738487	0,641416	-0,00473	-40,1691	324,5101	47,21642	52,43249	340,3306	5,751357	7,603196	338,3181	7,81384	9,398926	-95,9	38,78	-38,6303	100,5622
1.sSMPABC004		0	239571	12704,45	712,2176	0,151637	705,8028	0,05303	0,00054	0,054072	0,00047	0,395361	0,000716	0,02704	0,00095	0,05303	2,036583	0,395361	2,680619	0,054072	1,743	0,650223	0,02704	7,026627	330,0806	46,19848	51,50773	339,4722	5,752121	7,595788	338,2783	7,726914	9,326324	539,3	37,36	37,82728	100,3204
1.sSMPABC023		0	229818	12127,5	680,4472	0,158304	606,3748	0,05277	0,00056	0,054292	0,00047	0,395028	0,000731	0,0197	0,00094	0,05277	2,122418	0,395028	2,74191	0,054292	1,735919	0,633106	0,0197	9,543147	318,9203	48,24135	53,36703	340,821	5,75092	7,607433	338,0356	7,899473	9,468373	394,2	37,36	37,39575	100,7913
1.sSMPABC024		0	91467	4870,618	273,8507	0,132694	4870,618	0,05325	0,00063	0,053691	0,00049	0,394204	0,000798	0,02216	0,00252	0,05325	2,366197	0,394204	2,991326	0,053691	1,830065	0,611791	0,02216	22,74368	339,4641	53,58614	58,21077	337,1417	5,99917	7,763518	337,4359	8,608143	10,06444	443	99,86	99,99286	99,88042
1.sSMPABC043		0	135864	7226,606	405,865	0,141183	7226,606	0,05319	0,0006	0,053811	0,00048	0,394642	0,000768	-0,00849	0,0016	0,05319	2,256063	0,394642	2,879114	0,053811	1,788709	0,62127	-0,00849	-37,6914	336,9104	51,11516	55,94862	337,8777	5,876013	7,675448	337,755	8,290546	9,795803	-172,2	65,4	-65,0166	100,0039
1.sSMPABC044		0,004288	102483,4	5447,784	305,5213	0,126228	209,5301	0,05316	0,00061	0,053921	0,00049	0,395228	0,000782	0,00619	0,0025	0,053158	2,295114	0,395211	2,93059	0,053921	1,822309	0,621823	0,00619	80,77544	335,5348	52,01263	56,77195	338,5523	5,99809	7,77545	338,1691	8,448151	9,932677	124,6	100,44	100,5695	100,0808

								Ratios b								Ratios c									Dates c												
Identifier	Comments	f206c	207Pb	206Pb	U (µg g-1) a	Th/U	206Pb/204Pb	207Pb/206Pb	1s	206Pb/238U	1s	207Pb/235U	1s	208Pb/232Th	1s	207Pb/206Pb	2s (%)	207Pb/235U	2s (%)	206Pb/238U	2s (%)	Rho	208Pb/232Th	2s (%)	207Pb/206Pb	2s	2ssys	206Pb/238U	2s	2ssys	207Pb/235U	2s	2ssys	208Pb/232Th	2s	2ssys	% conc d
			CPS	CPS														Data for Wetherill plot c								abs	abs		abs	abs		abs	abs		abs	abs	
ARY REF. MAT. GJ																																					
1.sSMPABC005		0	156452	9360,523	255,929	0,047291	9360,523	0,05983	0,00063	0,098268	0,00085	0,810647	0,001058	0,01754	0,00786	0,05983	2,105967	0,80852	2,728304	0,09801	1,734517	0,635749	0,01754	89,62372	597,432	45,61557	50,53457	602,7362	9,98843	13,21888	601,6233	12,46098	14,9653	351,5	312,18	314,7671	100,185
1.sSMPABC006		0,077334	153990,1	9213,795	252,0046	0,046674	126,2164	0,05988	0,00063	0,098228	0,00085	0,810993	0,001058	0,01328	0,00826	0,059834	2,121643	0,80824	2,745414	0,09797	1,742392	0,634655	0,01328	124,3976	597,5657	45,95409	50,84014	602,5013	10,03008	13,2483	601,466	12,5372	15,02818	266,6	329,38	332,2049	100,1721
1.sSMPABC025		0	126541	7596,256	207,8906	0,04283	7596,256	0,06003	0,00064	0,097847	0,00086	0,809871	0,001072	-0,00299	0,01037	0,06003	2,132267	0,807746	2,766385	0,09759	1,762476	0,637104	-0,00299	-693,645	604,6561	46,12935	50,9876	600,2699	10,1099	13,289	601,1889	12,62926	15,10381	-60,5	420,38	-416,121	99,84713
1.sSMPABC026		0	126218	7512,495	205,4442	0,051092	417,3609	0,05952	0,00063	0,098759	0,00087	0,810478	0,001074	0,23207	0,00959	0,05952	2,116935	0,808352	2,75716	0,0985	1,766497	0,640695	0,23207	8,264748	586,1693	45,93997	50,84522	605,6123	10,21907	13,41966	601,529	12,59214	15,07456	4218,2	314,56	319,4699	100,6788
1.sSMPABC045		0	114553	6860,579	187,5999	0,044773	6860,579	0,05989	0,00065	0,098158	0,00089	0,810549	0,001102	0,02764	0,01072	0,05989	2,170646	0,808422	2,831517	0,0979	1,818182	0,642123	0,02764	77,56874	599,6027	46,99942	51,78382	602,0903	10,4599	13,57326	601,5686	12,93453	15,36297	551	421,58	426,1071	100,0867
1.sSMPABC046		1	115207,5	6903,775	188,614	0,049257	181,6783	0,0599	0,00067	0,098188	0,00089	0,810932	0,001114	-0,00688	0,01058	0,059925	4,017384	0,809138	4,859426	0,09793	2,73398	0,562614	-0,00688	-307,558	600,8564	86,96722	89,64216	602,2665	15,73928	17,96313	601,9706	22,3115	23,82221	-139,6	430,6	-426,191	100,0492

Supplementary file 4 - U-Pb dating of the MC-04 Sample

a concentration uncertainty ca. 20%

b data not corrected for common-Pb

c data corrected/not corrected for common-Pb

*d Concordance calculated as (206Pb-238U age/207Pb-206Pb age)*100*

Decay constants of Jaffey et al. (1971) used
bd = below detection; #N/A = not available
Uncertainties quoted without components related to systematic error unless otherwise stated
Total systematic uncertainties (ssys): 206Pb/238U = 2.0%, 207Pb/206Pb = 0.55% (2s)

20th July 2017, Dept. Geology, Univ. of Ouro Preto								**Ratios b**								**Ratios c**									**Dates c**												
Identifier	Comments	f206c	207Pb	206Pb	U (µg g-1)	Th/U	206Pb/204Pb	207Pb/206Pb	1s	206Pb/238U	1s	207Pb/235U	1s	208Pb/232Th	1s	207Pb/206Pb	2s (%)	207Pb/235U	2s (%)	206Pb/238U	2s (%)	Rho	208Pb/232Th	*2s (%)*	207Pb/206Pb	2s	2ssys	206Pb/238U	2s	2ssys	207Pb/235U	2s	2ssys	208Pb/232Th	2s	2ssys	% conc d
			CPS	CPS														**Data for Wetherill plot c**								abs	abs		abs	abs		abs	abs		abs	abs	
1.sSMPABC067		0,144565	122965,8	16521,13	66,6465	0,273955	229,4601	0,13455	0,0014	0,401531	0,00367	7,449105	0,003928	0,15574	0,00738	0,134355	2,095105	7,438337	2,787901	0,401531	1,839274	0,659734	0,15574	9,477334	2155,665	36,56643	40,54858	2176,085	33,92795	43,84541	2165,594	25,24862	30,1622	2925,6	258	261,3221	100,2497
1.sSMPABC068		0	108920	14629,05	59,18941	0,848036	281,3278	0,13431	0,0014	0,400475	0,00367	7,416269	0,003928	0,12485	0,00349	0,13431	2,084729	7,416269	2,782376	0,400475	1,842693	0,662273	0,12485	5,590709	2155,074	36,38772	40,388	2171,228	33,92711	43,81166	2162,935	25,18891	30,10867	2377,9	125,26	127,7699	100,149
1.sSMPABC069		0,347635	217590,4	30803,44	115,0881	1,614603	120,3259	0,14206	0,00144	0,411454	0,00381	8,05925	0,004073	0,08716	0,00174	0,141566	2,092827	8,031233	2,806353	0,411454	1,869677	0,66623	0,08716	3,992657	2246,453	36,16634	40,11307	2221,567	35,09677	45,06226	2234,542	25,64611	30,57786	1689,1	64,52	66,81258	99,18367
1.sSMPABC070		0	771879	102768	413,8859	0,334309	102768	0,13314	0,00136	0,405864	0,00363	7,45059	0,003876	0,06299	0,00172	0,13314	2,042962	7,45059	2,721759	0,405864	1,79841	0,660753	0,06299	5,461184	2139,789	35,71924	39,7999	2195,986	33,4279	43,59562	2167,067	24,64716	29,65864	1234,6	65,6	66,53787	101,0983
1.sSMPABC071		0,12358	616815,3	83832,49	329,3123	0,435296	291,085	0,13608	0,00136	0,407624	0,00372	7,648125	0,003961	0,08846	0,0019	0,135912	2,009543	7,638674	2,722014	0,407624	1,836056	0,674521	0,08846	4,295727	2175,744	34,99545	39,12042	2204,048	34,23506	44,27375	2189,419	24,72276	29,74898	1713,2	70,7	72,53003	100,4322
1.sSMPABC072		0,063517	1103517	146817,9	595,34	1,001002	560,3736	0,13313	0,00136	0,403391	0,00361	7,404631	0,003858	0,09729	0,00213	0,133045	2,046643	7,399928	2,725404	0,403391	1,799745	0,660359	0,09729	4,378662	2138,547	35,78853	39,86317	2184,635	33,30693	43,42444	2160,962	24,66025	29,66212	1876,7	78,56	80,79297	100,86
1.sSMPABC073		0,535971	253709,8	37756,61	126,1416	4,831563	69,91964	0,14962	0,0016	0,437715	0,00399	9,029886	0,004299	0,01674	0,00047	0,148818	2,267714	8,981488	2,926219	0,437715	1,849387	0,632006	0,01674	5,615293	2332,39	38,83216	42,46811	2340,403	36,26281	46,76247	2336,124	27,07906	31,90264	335,6	18,8	19,04006	99,94261
1.sSMPABC074		0	1528438	202059,5	818,2599	0,367745	1422,954	0,1322	0,00136	0,406508	0,00363	7,409715	0,003876	0,1026	0,0024	0,1322	2,057489	7,409715	2,730807	0,406508	1,795563	0,657521	0,1026	4,678363	2127,393	36,02295	40,08333	2198,935	33,41263	43,6042	2162,144	24,71369	29,70834	1974,2	88,08	90,24625	101,4651
1.sSMPABC075		0,30897	696162,9	98591,34	361,3285	0,452391	137,6974	0,14206	0,00143	0,419296	0,0039	8,212853	0,004154	0,10707	0,00239	0,141621	2,066074	8,187478	2,790799	0,419296	1,876139	0,672259	0,10707	4,464369	2247,123	35,70142	39,69387	2257,284	35,69341	45,76681	2251,959	25,55712	30,52213	2055,9	87,36	89,62387	99,99883
1.sSMPABC076		0,053785	888260,7	117728,9	477,5326	0,179645	555,325	0,13261	0,00138	0,404809	0,00361	7,401629	0,003865	0,10482	0,0033	0,132539	2,083992	7,397648	2,749396	0,404809	1,793364	0,652276	0,10482	6,296508	2131,871	36,46875	40,48063	2191,143	33,2719	43,44241	2160,686	24,87909	29,8453	2014,8	120,62	122,6371	101,1736
1.sSMPABC077		0	349965	47168,28	184,9998	1,328697	524,092	0,13478	0,00141	0,411685	0,00369	7,650543	0,00395	0,09891	0,00247	0,13478	2,092299	7,650543	2,761512	0,411685	1,802286	0,652645	0,09891	4,994439	2161,169	36,49522	40,47977	2222,623	33,84193	44,09688	2190,813	25,09055	30,05922	1906,3	90,74	92,79958	101,2147
1.sSMPABC078		0,097472	835194,1	113116,9	444,0083	0,584669	349,1262	0,13557	0,0014	0,409363	0,00367	7,651974	0,003928	0,08999	0,00227	0,135438	2,072373	7,644515	2,747126	0,409363	1,803323	0,65644	0,08999	5,045005	2169,658	36,11382	40,12909	2212,009	33,72534	43,93444	2190,105	24,95591	29,94526	1741,7	84,2	86,06348	100,7636
1.sSMPABC079		0,22493	1149751	155922,7	612,7992	0,570235	182,7933	0,13592	0,00135	0,408317	0,00374	7,652134	0,003976	0,10438	0,00226	0,135614	2,018386	7,634922	2,734646	0,408317	1,845103	0,674714	0,10438	4,330331	2171,926	35,16424	39,27476	2207,224	34,44595	44,45891	2188,978	24,83746	29,84455	2006,8	82,62	85,14518	100,5974
1.sSMPABC080		0,013666	798554,1	105283	424,7905	0,316475	1169,811	0,13186	0,0014	0,409112	0,00364	7,438001	0,0039	0,09802	0,00322	0,131842	2,123856	7,436984	2,77696	0,409112	1,789062	0,644252	0,09802	6,570088	2122,643	37,20465	41,15258	2210,859	33,44331	43,70989	2165,431	25,14774	30,077	1890	118,58	120,2639	101,8606
1.sSMPABC087		0,152296	884204,6	118453,1	487,0988	0,501965	248,851	0,13417	0,00136	0,395046	0,00364	7,308104	0,003886	0,07934	0,00212	0,133966	2,043062	7,296974	2,759127	0,395046	1,854368	0,672085	0,07934	5,344089	2150,592	35,67815	39,75374	2146,189	33,80948	43,54969	2148,44	24,92658	29,87016	1543,1	79,5	80,85288	99,66217
1.sSMPABC088		0,131553	1512549	211629,3	791,7386	0,470692	301,8963	0,1401	0,00155	0,415757	0,00371	8,031178	0,004021	0,09015	0,00299	0,139916	2,223586	8,020613	2,857957	0,415757	1,795435	0,628223	0,09015	6,633389	2226,165	38,5103	42,25424	2241,19	33,94947	44,30665	2233,348	26,11992	30,97787	1744,6	110,94	112,4244	100,114
1.sSMPABC089		0,046503	946665,2	128081	503,4915	0,991851	715,5364	0,13536	0,00144	0,409182	0,0037	7,636743	0,00397	0,08178	0,00258	0,135297	2,129759	7,633192	2,800418	0,409182	1,81837	0,649321	0,08178	6,309611	2167,845	37,12126	41,03957	2211,181	33,99679	44,138	2188,774	25,44171	30,3527	1588,8	96,32	97,82072	100,7872

a concentration uncertainty ca. 10%

b data not corrected for common-Pb

c data corrected/not corrected for common-Pb

*d Concordance calculated as (206Pb-238U age/207Pb-206Pb age)*100*

Decay constants of Jaffey et al. (1971) used
bd = below detection; #N/A = not available
Uncertainties quoted without components related to systematic error unless otherwise stated
Total systematic uncertainties (ssys): 206Pb/238U = 2.0%, 207Pb/206Pb = 0.55% (2s)

								Ratios b								**Ratios c**									**Dates c**												
Identifier	Comments	f206c	207Pb	206Pb	U (µg g-1)	Th/U	206Pb/204Pb	207Pb/206Pb	1s	206Pb/238U	1s	207Pb/235U	1s	208Pb/232Th	1s	207Pb/206Pb	2s (%)	207Pb/235U	2s (%)	206Pb/238U	2s (%)	Rho	208Pb/232Th	*2s (%)*	207Pb/206Pb	2s	2ssys	206Pb/238U	2s	2ssys	207Pb/235U	2s	2ssys	208Pb/232Th	2s	2ssys	% conc d
			CPS	CPS														**Data for Wetherill plot c**								abs	abs		abs	abs		abs	abs		abs	abs	
RY REF. MAT. BB																																					
1.sSMPABC061		0	171796	10072,4	405,9729	0,451504	359,7286	0,05863	0,00062	0,0916	0,00084	0,74132	0,001044	0,03004	0,00088	0,05863	2,114958	0,740486	2,799434	0,0916	1,834061	0,655154	0,03004	5,858855	553,3841	46,15176	51,08839	564,9928	9,928837	12,83877	562,6889	12,16593	14,49751	598,2	34,64	35,03574	100,4094
1.sSMPABC062		0	167769	9901,726	400,0377	0,453151	9901,726	0,05902	0,00063	0,09078	0,00083	0,73949	0,001042	0,02526	0,00086	0,05902	2,13487	0,738738	2,810949	0,09078	1,828597	0,650526	0,02526	6,809184	567,8339	46,47253	51,35557	560,1485	9,817927	12,71059	561,6691	12,1996	14,52006	504,2	33,76	34,28517	99,72928
1.sSMPABC081		0,209648	175299,5	10355,97	414,0712	0,455563	62,76348	0,0592	0,00064	0,09164	0,00085	0,74889	0,001064	0,02497	0,00096	0,059076	2,279993	0,746443	2,974736	0,09164	1,910678	0,642302	0,02497	7,689227	569,8939	49,61436	40,61816	565,229	10,34808	1618,547	566,1584	12,9926	297,286	498,6	37,72	#VALOR!	99,83584
1.sSMPABC082		0	188694	11117,85	444,304	0,466168	292,575	0,05892	0,00063	0,09193	0,00085	0,74759	0,001058	0,03274	0,00103	0,05892	2,138493	0,746829	2,827157	0,09193	1,849233	0,654096	0,03274	6,291998	564,1413	46,58046	439,0652	566,9413	10,04409	#VALOR!	566,3829	12,34777	#VALOR!	651,2	40,46	#VALOR!	100,0986
1.sSMPABC101		0	170365	10071,98	404,357	0,459967	10071,98	0,05912	0,00066	0,0912	0,00085	0,74427	0,001076	0,03386	0,00139	0,05912	2,232747	0,743414	2,908571	0,0912	1,864035	0,640877	0,03386	8,210278	571,5179	48,57295	52,11986	562,6302	10,05082	13,73273	564,3957	12,67205	15,55439	673,1	54,54	#VALOR!	99,68719
1.sSMPABC102		0	170032	9945,172	403,2571	0,445773	1105,019	0,05849	0,00065	0,09127	0,00085	0,73692	0,00107	0,02	0,00109	0,05849	2,222602	0,736056	2,899872	0,09127	1,862605	0,642306	0,02	10,9	548,1649	48,54365	51,48817	563,0437	10,05017	13,73444	560,1015	12,56144	15,45696	400,3	43,32	#VALOR!	100,5253
								Ratios b										**Ratios c**													**Dates c**						
Identifier	Comments	f206c	207Pb	206Pb	U (µg g-1)	Th/U	206Pb/204Pb	207Pb/206Pb	1s	206Pb/238U	1s	207Pb/235U	1s	208Pb/232Th	1s	207Pb/206Pb	2s (%)	207Pb/235U	2s (%)	206Pb/238U	2s (%)	Rho	208Pb/232Th	*2s (%)*	207Pb/206Pb	2s	2ssys	206Pb/238U	2s	2ssys	207Pb/235U	2s	2ssys	208Pb/232Th	2s	2ssys	% conc d
			CPS	CPS															**Data for Wetherill plot c**							abs	abs		abs	abs		abs	abs		abs	abs	
ARY REF. MAT. GJ																																					
1.sSMPABC065		0	101305	6098,561	225,2087	0,03513	677,6179	0,0602	0,00066	0,097894	0,00091	0,812561	0,001124	-0,27526	0,01627	0,0602	2,192691	0,812561	2,881258	0,097894	1,869159	0,64873	-0,27526	-11,8216	610,7709	47,38804	52,11986	602,0577	10,70032	13,73273	603,8895	13,16129	15,55439	******	907,78	#VALOR!	99,58926
1.sSMPABC066		0	102057	6141,79	226,7873	0,041421	6141,79	0,06018	0,00065	0,097935	0,00091	0,812624	0,001118	-0,08471	0,01224	0,06018	2,160186	0,812624	2,856097	0,097935	1,868391	0,654176	-0,08471	-28,8986	610,0527	46,69116	51,48817	602,2938	10,69993	13,73444	603,9252	13,04618	15,45696	******	540,5	#VALOR!	99,62243
1.sSMPABC085		0	101250	6082,088	224,2114	0,046923	289,6232	0,06007	0,00067	0,098276	0,00093	0,81397	0,001146	-0,14579	0,01376	0,06007	2,230731	0,81397	2,93204	0,098276	1,902813	0,648972	-0,14579	-18,8765	606,097	48,24787	52,90981	604,3005	10,93191	13,93301	604,6788	13,40771	15,76837	******	651,28	#VALOR!	99,82972
1.sSMPABC086		0,035027	101159,4	6066,429	224,8851	0,045245	99,44965	0,05999	0,00064	0,097894	0,00091	0,809726	0,001113	-0,03243	0,01246	0,059969	2,137631	0,809442	2,840492	0,097894	1,870543	0,658528	-0,03243	-76,8424	602,4558	46,26244	51,11144	602,0577	10,70825	13,73891	602,1412	12,94612	15,3626	-666,4	520,66	-514,077	99,87872