

Elevation m	Gurmatkal area														Gulbarga area				Chichansur area	Pargi area	Marepalli area	Zahirabad area
	642	629	627	625	627	642	644	522	656	686	660	660	526	525	446	605	587	568	585			
Location	16 51 12 N	16 54 32 N	16 54 32 N	17 54 32 N	16 53 47 N	16 53 51 N	17 53 51 N	17 33 35 N	16 52 09 N	16 53 00 N	17 11 50 N	18 11 50 N	17 24 04 N	18 24 04 N	17 31 08 N	17 11 47 N	17 21 32 N	17 21 32 N	17 38 36 N			
Sample no.	GM04	GM11	GM18	GM02	GM10	GM22	GM28	GN02	GN03	GN10	GN16	GN17	GU02	GU03	CC03	PG06	MP02	MP10	ZB04			
SiO ₂	47.91	48.70	47.87	48.69	49.65	49.46	48.40	48.56	48.65	49.46	48.57	48.04	47.88	48.82	47.41	48.28	47.82	47.63	49.15			
TiO ₂	2.97	2.80	3.22	2.64	3.64	2.70	2.87	2.58	2.49	2.93	2.47	1.83	2.47	2.56	2.24	2.72	2.39	2.42	2.54			
Al ₂ O ₃	13.54	14.70	14.91	14.83	16.31	15.22	13.57	13.62	13.29	13.29	13.60	14.15	17.73	13.64	13.69	13.63	14.15	13.49	13.50			
Fe ₂ O ₃	15.14	13.70	14.84	13.79	12.22	12.10	13.27	15.17	15.15	13.59	14.90	12.86	15.23	15.09	14.60	15.47	13.82	14.84	13.97			
MnO	0.16	0.20	0.19	0.22	0.21	0.15	0.36	0.19	0.20	0.20	0.18	0.17	0.09	0.20	0.21	0.21	0.18	0.17	0.17			
MgO	6.13	5.10	5.34	5.29	4.98	5.74	5.93	5.88	6.01	6.17	6.04	7.61	4.38	6.10	5.41	6.10	6.35	6.81	6.89			
CaO	9.69	9.80	6.05	9.21	5.03	10.27	11.13	10.79	11.01	10.71	10.91	11.11	3.91	10.70	9.98	10.68	11.22	10.42	10.91			
Na ₂ O	2.35	2.30	1.73	2.05	1.79	2.27	2.33	2.26	2.30	2.45	2.26	1.99	1.09	2.35	1.93	2.23	2.21	2.25	2.31			
K ₂ O	0.67	0.50	0.24	0.10	0.74	0.10	0.13	0.19	0.19	0.26	0.19	0.09	0.10	0.23	0.22	0.20	0.08	0.15	0.21			
P ₂ O ₅	0.29	0.30	0.27	0.21	0.37	0.23	0.27	0.23	0.22	0.28	0.22	0.16	0.18	0.23	0.21	0.21	0.22	0.22	0.23			
LOI	1.8	1.3	5.8	3.2	5.2	2.2	1.8	0.7	1.0	0.9	1.1	1.7	7.2	0.5	2.9	0.6	2.1	0.9	1.2			
Total	100.66	99.30	100.42	100.21	100.16	100.39	100.04	100.15	100.47	100.23	100.47	99.73	100.28	100.40	98.81	100.38	100.54	99.33	101.10			
Det. Limit																						
Rb	2.0	15.7	11.3	14.1	1.1	14.9	1.6	3.1	7.8	1.8	6.2	1.8	0.8	2.3	3.3	4.6	4.0	1.0	1.3			
Sc	2.0	31.4	34.2	47.6	42.2	50.5	42.3	38.1	36.1	31.8	32.7	34.0	31.9	50.6	40.4	38.5	34.2	39.4	35.5			
V	5.0	334.6	320.2	390.6	402.0	528.8	416.5	435.0	420.8	365.1	395.4	371.3	325.9	301.6	441.4	427.7	426.5	416.4	406.8			
Cr	4.0	222.6	253.8	352.5	138.2	423.5	320.8	309.2	90.1	108.4	273.1	89.8	196.3	329.4	98.8	u	154.4	123.3	229.1			
Co	2.0	37.6	38.2	43.3	41.9	17.3	31.4	29.2	34.6	37.3	33.5	36.0	39.3	21.4	39.4	34.3	38.3	38.0	35.5			
Ni	3.0	114.4	106.0	173.1	97.3	159.0	103.8	158.6	83.1	78.9	176.6	93.6	130.6	96.2	91.0	95.6	94.7	118.3	112.0			
Cu	3.0	249.6	273.3	252.4	238.4	273.1	233.9	219.0	180.7	215.3	232.2	235.0	135.2	169.9	239.3	190.2	195.7	232.4	235.6			
Zn	3.0	118.3	104.2	109.3	111.4	127.2	113.8	125.1	110.3	98.6	115.8	101.2	81.8	105.4	117.1	125.3	111.9	104.7	103.3			
Ga	3.0	25.1	25.9	25.1	23.0	24.3	22.9	22.8	23.8	22.4	23.7	22.5	22.4	22.4	22.6	24.0	22.9	20.2	21.8			
S	50.0	127.5	83.6	90.1	68.8	114.6	88.4	29.7	27.1	99.2	83.3	55.0	59.9	54.2	75.9	251.1	48.7	59.9	78.8			
Y	2.0	34.4	28.9	30.0	39.4	49.0	32.4	42.1	39.5	33.5	38.5	35.6	27.0	32.6	36.4	31.3	34.1	33.6	34.6			
Zr	2.0	195.8	194.5	176.9	152.3	204.8	164.1	167.6	151.9	144.3	179.3	145.0	107.0	139.3	154.1	133.1	141.6	141.3	151.0			
Nb	1.5	23.3	22.5	16.4	11.8	18.3	13.0	15.6	11.9	11.7	15.9	11.6	7.7	9.8	11.2	9.9	10.6	9.8	12.1			
Sr	2.0	308.3	327.3	289.2	240.7	267.8	230.1	238.9	217.5	235.1	255.9	224.7	206.1	150.0	216.3	206.4	220.5	271.3	230.4			
Ba	12.0	180.3	272.0	266.2	220.2	156.9	97.4	86.3	73.9	119.9	72.3	34.0	42.4	76.5	63.5	73.2	116.2	71.3	73.2			
Zr/Nb		8.4	8.6	10.8	12.9	11.2	12.6	10.7	12.8	12.3	11.3	12.5	13.9	14.2	13.8	13.4	14.4	14.4	12.5			
Ba/Y		5.2	9.4	8.9	5.6	3.2	3.0	2.1	1.9	2.4	3.1	2.0	1.3	1.3	2.1	2.0	2.2	3.5	2.0			
⁸⁷ Sr/ ⁸⁶ Sr		0.705267																				
Fm.		M	M	M	M	A	A	A	A	A	A	A	A	A	A	A	A	A	A			
Major element analyses recalculated to 100% volatile-free																						
SiO ₂	48.47	49.69	50.57	50.18	52.29	50.35	49.25	48.82	48.88	49.79	48.89	49.01	51.45	48.85	49.44	48.41	48.58	48.40	49.21			
TiO ₂	3.00	2.86	3.40	2.72	3.83	2.75	2.92	2.59	2.50	2.95	2.49	1.87	2.65	2.56	2.34	2.73	2.43	2.46	2.54			
Al ₂ O ₃	13.70	15.00	15.75	15.28	17.18	15.49	13.81	13.69	13.35	13.38	13.69	14.44	19.05	13.65	14.28	13.67	14.37	13.71	13.52			
Fe ₂ O ₃	15.32	13.98	15.68	14.21	12.87	12.32	13.50	15.25	15.22	13.68	15.00	13.12	16.37	15.10	15.23	15.51	14.04	15.08	13.99			
MnO	0.16	0.20	0.20	0.23	0.22	0.15	0.37	0.19	0.20	0.20	0.18	0.17	0.10	0.20	0.22	0.21	0.18	0.17	0.17			
MgO	6.20	5.20	5.64	5.45	5.24	5.84	6.03	5.91	6.04	6.21	6.08	7.76	4.71	6.10	5.64	6.12	6.45	6.92	6.90			
CaO	9.80	10.00	6.39	9.49	5.30	10.45	11.33	10.85	11.06	10.78	10.98	11.33	4.20	10.71	10.41	10.71	11.40	10.59	10.92			
Na ₂ O	2.38	2.35	1.83	2.11	1.89	2.31	2.37	2.27	2.31	2.47	2.28	2.03	1.17	2.35	2.01	2.24	2.25	2.29	2.31			
K ₂ O	0.68	0.51	0.25	0.10	0.78	0.10	0.13	0.19	0.19	0.26	0.19	0.09	0.11	0.23	0.23	0.20	0.08	0.15	0.21			
P ₂ O ₅	0.29	0.31	0.29	0.22	0.39	0.23	0.27	0.23	0.22	0.28	0.22	0.16	0.19	0.23	0.22	0.21	0.22	0.22	0.23			

XRF Major (wt.%) and trace element (ppm) analysis: Concentrations of major elements were determined by XRF at the Open University on fused glass discs manufactured from the fusion of 1 part rock powder (dried at 110 °C) with 5 parts of dried lithium metaborate/tetraborate flux (Johnson Matthey Spectroflux 100B) in Pt-5 % Au crucibles at 1100 °C. Percentage loss on ignition (LOI) of volatile components (e.g. H₂O, CO₂ etc.) was determined separately by calculating weight loss after ignition at 1000 °C for 1 hour. Analyses were performed using an ARL 8420+ dual goniometer wavelength-dispersive XRF spectrometer employing routine XRF procedures and analytical packages. Elemental intensities were corrected for background and known peak overlap interferences and medium-term instrumental intensity drift was taken into account using a drift normalisation monitor. Limits of detection (LoD; i.e. the smallest signal that can be quantitatively measures) are typically reported at the 6 confidence level (Potts, 1987); the LoD for major elements determined using fused beads manufactured from a range of basalt-derived alteration products are, in most instances, calculated as significantly less than 0.05 wt%. Conventionally, ensuring accuracy of XRF analyses is achieved by calibrating the instrument against a suitable range of reference materials. In this case, these reference materials included standards WS-E, OUG94, BHVO-1, QLO-1, DNC-1 and W2.

Fe₂O₃ represents total Fe

P=Poladpur Fm, A=Ambenali Fm, M=Mahabaleshwar Fm, a mix of letters indicates a mixed chemotype

Elevation m	Zahirabad area				Bidar area				Talamadma				Mothe		Baramajivadi				Dharma-ram		Killari borehole		
	634	680	688	661	575	613	540	582	598	604	575	578	560	600	640	650	610	13	36	64			
Location	17 39 00 N	17 54 42 N	18 54 42 N	17 58 02 N	18 00 39 N	18 08 52 N	18 01 25 N	17 56 57 N	18 13 39 N	18 14 17 N	18 19 46 N	19 19 46 N	18 17 20 N	18 18 37 N	18 23 50 N	19 23 50 N	18 03 36N	Depth					
Sample no.	ZB05	BB1	BB2	BB10	BB11	BB13	BB16	BB18	Ta01	Ta08	ES01	ES02	Ba03	Ba09	Ba16	Ba17	DD01	surface m	KB126	KB016	KB045		
SiO ₂	48.48	48.90	50.06	49.47	48.94	48.76	48.24	48.44	48.01	48.75	48.68	47.99	48.53	47.78	48.91	48.49	50.92		n/a	n/a	n/a		
TiO ₂	2.50	2.16	2.29	2.24	2.73	2.95	2.18	2.73	2.27	2.33	2.32	2.52	2.31	2.60	2.38	2.28	1.00		n/a	n/a	n/a		
Al ₂ O ₃	13.55	13.72	14.15	14.01	13.64	15.68	14.06	13.54	13.49	13.68	13.81	13.49	13.58	13.30	13.93	14.03	14.34		n/a	n/a	n/a		
Fe ₂ O ₃	13.93	13.40	12.63	12.83	15.55	14.08	13.95	15.22	14.61	14.68	14.19	15.11	14.43	15.18	14.09	14.86	13.57		n/a	n/a	n/a		
MnO	0.18	0.19	0.22	0.23	0.21	0.22	0.23	0.19	0.20	0.20	0.19	0.20	0.17	0.20	0.19	0.21	0.19		n/a	n/a	n/a		
MgO	6.68	6.93	5.99	6.61	6.31	4.13	5.75	6.24	6.42	6.17	6.49	6.49	6.39	6.28	6.60	5.51	6.27		n/a	n/a	n/a		
CaO	10.98	10.99	11.45	11.54	10.81	8.48	11.68	10.46	11.01	10.96	11.06	10.59	10.96	10.67	11.24	10.22	10.21		n/a	n/a	n/a		
Na ₂ O	2.25	2.46	2.78	2.28	2.39	2.26	2.33	2.50	2.16	2.21	2.27	2.31	2.28	2.27	2.28	1.95	2.07		n/a	n/a	n/a		
K ₂ O	0.14	0.16	0.25	0.23	0.33	0.71	0.12	0.41	0.19	0.32	0.19	0.26	0.28	0.18	0.15	0.23	0.62		n/a	n/a	n/a		
P ₂ O ₅	0.22	0.16	0.19	0.19	0.26	0.28	0.20	0.26	0.20	0.21	0.21	0.24	0.21	0.24	0.21	0.22	0.14		n/a	n/a	n/a		
LOI	0.7	0.6	0.7	0.6	0.1	1.0	1.2	0.1	1.1	0.9	1.1	1.0	0.9	1.2	0.2	1.3	0.5		n/a	n/a	n/a		
Total	99.62	99.07	100.01	100.19	101.21	98.58	99.90	100.05	99.64	100.43	100.48	100.19	100.01	99.85	100.21	99.31	99.78		n/a	n/a	n/a		
Rb	2.6	1.1	5.6	5.2	8.1	1.8	0.4	7.9	4.0	8.3	1.3	4.3	3.0	1.5	0.9	2.0	34.6		2.3	15.2	3.2		
Sc	35.4	37.7	36.8	36.4	36.8	41.9	39.7	37.5	38.7	36.5	33.3	33.5	39.1	37.3	34.0	36.2	43.2		36.0	36.0	40.0		
V	394.3	371.3	375.1	375.9	396.0	427.5	405.0	403.2	389.8	380.0	362.4	386.5	387.0	394.8	380.0	380.2	326.9		398.0	413.0	449.0		
Cr	230.2	148.3	139.3	148.7	116.4	246.0	74.4	112.6	150.1	154.5	144.5	111.5	152.1	107.1	141.9	108.5	164.1		175.0	106.0	88.0		
Co	33.4	n/a	n/a	39.5	37.0	37.1	35.9	35.3	38.5	39.0	39.1	34.5	37.9	38.7	35.1	38.5	37.8		60.0	51.0	54.0		
Ni	97.2	97.9	137.9	102.0	85.7	101.6	81.5	86.1	93.1	94.6	92.7	95.6	97.5	91.8	88.6	93.3	116.4		89.0	82.0	90.0		
Cu	201.0	177.4	185.0	179.4	243.0	213.7	215.5	247.3	198.7	210.4	207.0	220.4	203.0	190.2	202.0	207.0	151.8		185.0	247.0	201.0		
Zn	105.7	106.4	109.8	104.2	117.2	109.8	108.9	119.0	105.7	110.1	96.3	110.0	107.0	106.8	103.0	101.6	94.5		109.0	124.0	124.0		
Ga	22.1	na	na	21.1	23.9	23.2	23.4	22.6	21.7	22.2	20.9	22.5	20.9	23.8	23.3	23.2	15.8		23.0	22.0	26.0		
S	52.2	na	na	93.5	126.7	23.7	45.5	94.2	112.0	90.3	223.0	60.3	105.1	33.7	119.0	59.4	222.5		120.0	167.0	51.0		
Y	34.2	30.6	34.6	31.0	35.3	37.9	32.4	37.5	32.3	32.7	31.6	34.7	32.4	35.4	33.5	34.9	28.5		32.4	35.8	33.7		
Zr	154.2	128.1	136.4	130.8	165.3	161.0	132.0	167.9	138.8	144.2	138.5	155.9	138.4	158.9	141.2	153.2	88.2		141.0	152.0	137.0		
Nb	12.4	10.0	10.7	10.8	14.1	12.9	9.0	15.4	10.9	11.4	10.5	12.4	10.7	13.8	11.2	13.3	4.8		10.8	11.5	10.9		
Sr	231.6	210.4	221.6	234.0	243.8	253.8	257.8	245.7	229.2	229.4	232.3	233.1	234.8	235.7	231.6	238.7	139.1		211.0	210.0	212.0		
Ba	68.5	52.9	94.6	72.2	88.4	89.2	93.0	112.7	87.3	94.7	92.7	98.8	93.8	81.6	72.5	86.6	189.0		62.0	65.0	66.0		
Zr/Nb	12.4	12.8	12.7	12.1	11.7	12.5	14.7	10.9	12.7	12.7	13.2	12.6	12.9	11.5	12.7	11.5	18.4		13.1	13.2	12.6		
Ba/Y	2.0	1.7	2.7	2.3	2.5	2.4	2.9	3.0	2.7	2.9	2.9	2.9	2.9	2.3	2.2	2.5	6.6		1.9	1.8	2.0		
87Sr/86Sr		0.704249	0.704468																				
Fm.	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	P		A	A	A		
SiO₂	49.01	49.66	50.42	49.66	48.38	49.98	48.87	48.44	48.71	48.99	48.97	48.38	48.95	48.41	48.92	49.48	51.27						
TiO₂	2.53	2.19	2.31	2.25	2.70	3.02	2.21	2.73	2.30	2.34	2.33	2.54	2.33	2.63	2.38	2.33	1.01						
Al₂O₃	13.70	13.93	14.25	14.06	13.48	16.07	14.24	13.54	13.69	13.75	13.89	13.60	13.70	13.48	13.93	14.32	14.44						
Fe₂O₃	14.08	13.61	12.72	12.88	15.37	14.43	14.13	15.22	14.82	14.75	14.27	15.23	14.56	15.38	14.09	15.16	13.66						
MnO	0.18	0.19	0.22	0.23	0.21	0.23	0.23	0.19	0.20	0.20	0.19	0.20	0.17	0.20	0.19	0.21	0.19						
MgO	6.75	7.04	6.03	6.64	6.24	4.23	5.82	6.24	6.51	6.20	6.53	6.54	6.45	6.36	6.60	5.62	6.31						
CaO	11.10	11.16	11.53	11.58	10.69	8.69	11.83	10.46	11.17	11.02	11.13	10.68	11.06	10.81	11.24	10.43	10.28						
Na₂O	2.27	2.50	2.80	2.29	2.36	2.32	2.36	2.50	2.19	2.22	2.28	2.33	2.30	2.30	2.28	1.99	2.08						
K₂O	0.14	0.16	0.25	0.23	0.33	0.73	0.12	0.41	0.19	0.32	0.19	0.26	0.28	0.18	0.15	0.23	0.62						
P₂O₅	0.22	0.16	0.19	0.19	0.26	0.29	0.20	0.26	0.20	0.21	0.21	0.24	0.21	0.24	0.21	0.22	0.14						

	Killari borehole														Rajahmundry Cripps and Jay unpl.					
	76	122	143	167	171	173	195	197	214	239	278	294	321	331	17 01 49N 81 35 13E	17 01 38N 81 37 20E	17 01 37N 81 37 09E	17 01 38N 81 37 20E	17 01 57N 81 37 37E	17 01 57N 81 37 37E
Sample no.	KB056	KB138	KB153	KB170	KB174	KB175	KB184	KB185	KB197	KB214	KB235	KB089	KB110	KB118	DK27	Min10	Min11	Min3	RAM17	RAM19
SiO ₂	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	47.10	46.41	50.05	48.20	48.52	47.73
TiO ₂	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.00	1.91	2.78	1.95	1.95	1.88
Al ₂ O ₃	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	15.08	14.54	13.27	14.58	14.82	15.06
Fe ₂ O ₃	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	12.30	11.89	15.99	13.25	12.98	11.06
MnO	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.16	0.16	0.28	0.22	0.17	0.15
MgO	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.11	5.60	5.62	6.65	6.93	5.72
CaO	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	12.58	13.37	10.12	12.07	11.29	13.28
Na ₂ O	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.25	2.36	2.52	2.15	2.16	2.12
K ₂ O	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.08	0.08	0.37	0.08	0.08	0.07
P ₂ O ₅	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.18	0.16	0.27	0.17	0.16	0.16
LOI	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.7	3.6	0.3	1.4	1.5	3.2
Total	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	100.57	100.10	101.55	100.67	100.59	100.43
Rb	1.6	6.3	6.4	4.9	1.4	2.1	7.8	5.1	16.1	4.2	22.7	19.4	17.3	28.3	0.0	0.0	10.0	1.0	7.0	0.0
Sc	36.0	37.0	39.0	36.0	38.0	37.0	37.0	42.0	37.0	34.0	36.0	34.0	34.0	30.0	35.0	35.0	38.0	31.0	37.0	36.0
V	424.0	391.0	375.0	365.0	425.0	434.0	406.0	415.0	436.0	401.0	360.0	362.0	370.0	380.0	367.0	367.0	437.0	338.0	424.0	366.0
Cr	87.0	113.0	109.0	164.0	317.0	440.0	104.0	106.0	111.0	440.0	65.0	80.0	81.0	67.0	162.0	198.0	67.0	188.0	61.0	281.0
Co	52.0	73.0	72.0	62.0	56.0	60.0	64.0	56.0	60.0	49.0	63.0	50.0	41.0	60.0	41.0	40.0	40.0	42.0	37.0	43.0
Ni	87.0	73.0	80.0	97.0	101.0	109.0	61.0	65.0	58.0	69.0	59.0	60.0	54.0	60.0	109.0	94.0	57.0	103.0	62.0	98.0
Cu	223.0	148.0	175.0	178.0	228.0	242.0	288.0	289.0	257.0	210.0	178.0	176.0	268.0	260.0	182.0	177.0	277.0	177.0	249.0	174.0
Zn	125.0	111.0	109.0	96.0	117.0	117.0	135.0	137.0	138.0	125.0	118.0	114.0	115.0	124.0	102.0	100.0	127.0	97.0	131.0	101.0
Ga	24.0	20.0	20.0	25.0	25.0	24.0	25.0	27.0	23.0	22.0	24.0	25.0	25.0	26.0	22.0	20.0	22.0	20.0	23.0	22.0
S	52.0	55.0	94.0	81.0	89.0	165.0	99.0	79.0	48.0	158.0	145.0	173.0	158.0	195.0	194.0	96.0	203.0	198.0	100.0	96.0
Y	34.7	29.6	28.9	34.5	33.4	34.8	48.8	45.7	48.4	33.6	36.9	36.5	44.1	43.7	27.3	26.6	38.7	26.2	38.9	26.1
Zr	144.0	116.0	115.0	142.0	143.0	140.0	219.0	210.0	229.0	156.0	178.0	178.0	230.0	232.0	115.0	110.0	181.0	111.0	182.0	108.0
Nb	10.6	8.0	8.3	9.7	11.1	9.6	15.4	14.4	16.1	10.2	11.0	10.2	15.3	14.7	8.4	6.5	13.1	7.4	12.3	7.1
Sr	211.0	214.0	211.0	222.0	218.0	216.0	222.0	221.0	223.0	250.0	243.0	254.0	268.0	266.0	279.0	287.0	225.0	250.0	220.0	240.0
Ba	77.0	81.0	78.0	67.0	64.0	76.0	129.0	142.0	145.0	63.0	196.0	216.0	256.0	253.0	75.0	158.0	230.0	65.0	178.0	103.0
Zr/Nb	13.6	14.5	13.9	14.6	12.9	14.6	14.2	14.6	14.2	15.3	16.2	17.5	15.0	15.8	13.7	17.0	13.8	15.0	14.8	15.2
Ba/Y	2.2	2.7	2.7	1.9	1.9	2.2	2.6	3.1	3.0	1.9	5.3	5.9	5.8	5.8	2.8	5.9	5.9	2.5	4.6	3.9
⁸⁷ Sr/ ⁸⁶ Sr																				
Fm.	A	A	A	A	A	A	A	A	A	A	P	P	P	P	A	M	A/M	A	A/M	A/M
SiO ₂															48.14	48.10	49.42	48.53	48.98	49.09
TiO ₂															2.04	1.98	2.75	1.96	1.97	1.93
Al ₂ O ₃															15.41	15.07	13.10	14.68	14.96	15.49
Fe ₂ O ₃															12.57	12.32	15.79	13.34	13.10	11.38
MnO															0.16	0.17	0.28	0.22	0.17	0.15
MgO															6.24	5.80	5.55	6.70	7.00	5.88
CaO															12.86	13.86	9.99	12.15	11.40	13.66
Na ₂ O															2.30	2.45	2.49	2.16	2.18	2.18
K ₂ O															0.08	0.08	0.37	0.08	0.08	0.07
P ₂ O ₅															0.18	0.17	0.27	0.17	0.16	0.16

