

Sample	WB8335	87103	DM-3	89206	DML-13	CF8522
Age, Ma					35.4	31.8
Long W	103 1.8	104 20	105 31	104 23	104 04	103 26.0
Lat N	29 42.2	30 40	31 54	30 42	30 32.4	29 04.5
SiO2	56.40	58.24	57.00	58.76	57.72	57.42
TiO2	0.25	0.13	0.19	0.20	1.30	1.04
Al2O3	17.60	18.77	18.40	18.56	17.45	19.46
Fe2O3	5.07	4.65	4.80	4.26	1.00	1.34
FeO	1.70	1.27	1.75	1.31	4.11	5.52
FeO*						
MnO	0.19	0.38	0.25	0.41	0.14	0.73
MgO	0.28	0.22	0.20	0.26	1.72	1.27
CaO	1.84	0.99	1.50	1.01	3.30	2.41
Na2O	6.75	8.90	6.76	9.45	5.26	4.06
K2O	5.58	5.09	5.61	5.02	4.90	3.30
P2O5	0.15	0.05	0.08	0.06	0.52	0.35
H2O+			2.26	0.51		
H2O-		0.14	0.36	0.06		
CO2	0.20	0.03	0.18	0.01		
Total	95.80	98.86	99.16	99.86	97.42	96.90
SiO2'	59.00	59.01	59.15	59.19	59.25	59.26
(Na2O+K2O)'	12.88	14.18	12.84	14.57	10.43	7.60
Sc		3.3	3.6	5.6		8.74
V		38	39	44		64
Cr						3.68
Ni	10					24.48
Cu		18	9	23		
Zn		199	150	205		142
Ga						
Rb	120	187	99	186		123.78
Sr	10	15	174	21		442
Y		76	58	81		43
Zr	740	916	737	1073		509
Nb		252	146	298		43.1*
Cs		2.3	1.7	2.4		3.93
Ba		5		35		1169
La		174.7				67
Ce		304.1				132.76
Pr						
Nd		110.2				53.59
Sm		14.3				10.58
Eu		1.73				2.87
Gd		13.67				
Tb						2.02
Dy		13.5				
Ho						
Er		8.39				
Tm						
Yb		9.06				4.43
Lu		1.62				0.61

Hf		18	17	23		11.33
Ta		14	9.7	17		4.33
Pb				22		
Th		22	15	26		12.53
U		4.9	3.9	7.2		6.86
Li		38		44		
F						
Rb/Sr	12	12.5	0.57	8.86		0.28
Cen/Ybn		9.07				8.1
Eu*		0.37				0.77
Zr/Hf		50.9	43.4	46.7		44.9
Ba/Rb		0.03		0.19		9.44
Rb/Th		8.5	6.6	7.15		9.88
$^{87}\text{Sr}/^{86}\text{Sr}_i$						
$^{143}\text{Nd}/^{144}\text{Nd}$				0.512758		
$^{206}\text{Pb}/^{204}\text{Pb}$				18.175		
$^{207}\text{Pb}/^{204}\text{Pb}$				15.5		
$^{208}\text{Pb}/^{204}\text{Pb}$				37.943		

Sample	Corn33	RM191	WB8332	Muerto	MV9	SP-22
Age, Ma		28.6			34	
Long W	105 32	103 33	103 1.8	104 20	105 25.9	105 10
Lat N	32 02	29 15	29 42.2	30 40	31 52.6	31 34
SiO2	59.40	59.00	57.10	57.60	58.38	59.00
TiO2	0.18	1.39	0.18	0.28	0.81	0.07
Al2O3	18.40	17.23	17.80	18.68	17.56	17.30
Fe2O3	5.64		3.23	4.19	5.61	2.73
FeO			3.00	0.60		4.89
FeO*		4.90				
MnO	0.27	0.09	0.22	0.37	0.12	0.27
MgO	0.48	1.17	0.18	0.18	1.20	0.14
CaO	1.28	2.72	2.12	1.51	3.43	0.98
Na2O	7.72	6.14	6.89	8.08	4.44	8.63
K2O	5.33	6.52	5.70	4.55	6.53	5.25
P2O5	0.09	0.29	0.12	0.03	0.21	0.05
H2O+				2.05		0.24
H2O-				1.11		0.13
CO2			0.30	0.02		
Total	96.79	99.45	96.54	100.25	98.29	99.68
SiO2'	59.30	59.33	59.33	59.34	59.40	59.41
(Na2O+K2O)'	13.48	12.73	13.08	13.01	11.16	13.78
Sc					3.16	7.8
V					34	77
Cr	22					
Ni					4	
Cu						20
Zn	184				56	222
Ga	29					
Rb	160	18.9	140		52	238
Sr	64	554	30		127	17
Y	53				25	94
Zr	1759		820		174	1558
Nb	214				13*	268
Cs	18				0.98	4.6
Ba	103	1745			345	
La	123				32.99	
Ce					51.19	
Pr						
Nd					21.31	
Sm					3.44	
Eu					2.18	
Gd						
Tb					0.45	
Dy						
Ho						
Er						
Tm						
Yb					1	
Lu					0.13	

Hf					3.58	35
Ta					3	16
Pb	31					28
Th	38				2.44	28
U					1.27	9.1
Li						74
F						
Rb/Sr	2.5	0.03	4.67		0.41	14
Cen/Ybn					13.85	
Eu*					1.97*	
Zr/Hf					48.6	44.5
Ba/Rb	0.64	92.3			6.63	
Rb/Th	4.21				21.3	8.5
87Sr/86Sr,l			0.7058			
143Nd/144Nd						0.51284
206Pb/204Pb						18.17
207Pb/204Pb						15.497
208Pb/204Pb						38.062

Sample	Tr8-1	J81-199	MV5	76001	WBH908	GM-1
Age, Ma	27.2	32	34	36		
Long W	104 06.5	104 31	105 25.6	103 58	103 1.8	105 35
Lat N	29 24.8	29 53.8	31 52.6	30 27.5	29 42.2	31 35
SiO2	59.42	59.43	58.49	58.93	57.51	57.40
TiO2	1.45	1.56	0.30	1.34	0.19	0.16
Al2O3	17.71	16.58	17.90	15.78	17.87	18.80
Fe2O3		2.96	5.10	4.60	3.01	4.48
FeO		4.33		2.61	3.26	1.84
FeO*	6.52					
MnO	0.18	0.13	0.16	0.15	0.22	0.14
MgO	1.09	1.60	0.07	1.33	0.18	0.38
CaO	2.85	4.37	1.46	3.85	2.23	1.18
Na2O	5.06	4.22	6.56	5.56	6.70	6.21
K2O	5.46	4.27	8.66	4.21	5.42	5.64
P2O5	0.46	0.55	0.16	0.71	0.12	0.34
H2O+				0.79	1.45	2.41
H2O-				0.43	0.31	0.55
CO2				0.25	0.10	0.13
Total	100	100	98.40	100.54	98.45	99.49
SiO2'	59.42	59.43	59.44	59.48	59.54	59.54
(Na2O+K2O)'	10.52	8.49	15.47	9.86	12.55	12.29
Sc	7.93		5.21		5.7	5.9
V	158				33	19
Cr	0.94					
Ni	18.6		4			
Cu					13	
Zn			126	101	179	111
Ga						
Rb	148		173	95	132	104
Sr	322		119	520	42	137
Y	81.2		38	59	52	29
Zr	914		813	640	706	890
Nb	168		53*	43*	162	99
Cs	4.33		41.12		2	
Ba	1441		344		146	409
La	146		101.04		101	78.3
Ce	214		188.85		193	151
Pr						
Nd	101		75.64		80	55
Sm	16.8		12.3		11	8.3
Eu	3.57		1.67		2	1.7
Gd						
Tb	2.88		2.31		1.7	
Dy						
Ho						
Er						
Tm						
Yb	8.46		5.3		5.3	2.6
Lu	1.02		0.72		0.86	0.38

Hf	22.4		20.32		16	21
Ta	5.37		8.28		9	7.8
Pb					6	5
Th	19.6		15.11		15	9.6
U	3.35		6.62		3.5	2.2
Li					22	43
F					1300	580
Rb/Sr	0.46		1.45	0.18	3.14	0.76
Cen/Ybn	6.84		9.63		9.84	15.7
Eu*	0.62		0.39		0.54	
Zr/Hf	40.8		40		44.1	42.4
Ba/Rb	9.74		1.99		1.11	3.93
Rb/Th	7.55		11.4		8.8	10.8
87Sr/86Sr,l						
143Nd/144Nd					0.512747	0.512802
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	MV863	WB8333	WBH901	DM158	WN-11	Paint Mtn
Age, Ma	34					
Long W	105 25.4	103 1.8	103 1.8	104 0.9	105 32	103 38
Lat N	31 51.9	29 42.2	29 42.2	30 40.7	32 02	29 33
SiO2	57.24	57.00	57.62	58.84	58.60	58.69
TiO2	0.48	0.25	0.19	1.78	0.17	1.11
Al2O3	17.95	18.20	17.88	14.47	18.54	16.60
Fe2O3	4.82	5.97	3.26	1.72	4.21	6.97
FeO		0.80	3.29	7.11	2.08	0.74
FeO*						
MnO	0.14	0.08	0.22	0.09	0.30	0.11
MgO	0.32	0.31	0.16	2.08	0.45	0.80
CaO	1.88	2.00	1.71	2.64	1.84	2.73
Na2O	7.55	5.25	7.05	4.01	6.92	5.29
K2O	5.46	5.94	5.40	5.17	5.22	4.79
P2O5	0.28	0.15	0.13	0.75	0.11	0.45
H2O+			1.76		1.90	0.38
H2O-			0.25		0.17	0.24
CO2		0.40	0.28		0.26	0.23
Total	96.12	96.04	98.90	98.66	100.52	99.13
SiO2'	59.55	59.60	59.64	59.64	59.68	59.72
(Na2O+K2O)'	13.54	11.70	12.89	9.30	12.36	10.26
Sc	4		5.8	16.81	1.5	
V	99		36		50	
Cr	1					
Ni	8					
Cu			24		24	
Zn	106		184		194	
Ga						
Rb	85	120	123	193	145	
Sr	230	10	17	289	116	
Y	32		50	141	66	
Zr	635	860	748	966	1571	
Nb	42*		165	59.2*	220	
Cs	0.97		1.8	2.72	2.1	
Ba	900		157	1598	119	
La	78.31			119		
Ce	157.1			238		
Pr						
Nd	68.08			104		
Sm	11.09			21.47		
Eu	2.4			3.77		
Gd						
Tb	1.97			3.57		
Dy						
Ho						
Er						
Tm						
Yb	4.31			7.84		
Lu	0.58			1.07		

Hf	15.15		15	24.57	32
Ta	6.49		8.2	7.82	15
Pb					
Th	11.03		11	26.68	32
U	4.69		2.1	4.15	9.7
Li			30		50
F					
Rb/Sr	0.37	12	7.24	0.67	1.25
Cen/Ybn	9.85			8.21	
Eu*	0.63			0.52	
Zr/Hf	41.9		49.9	39.3	49.1
Ba/Rb	10.6		1.28	8.28	0.82
Rb/Th	7.71		11.2	7.23	4.53
87Sr/86Sr,l		0.70573			
143Nd/144Nd					
206Pb/204Pb					
207Pb/204Pb					
208Pb/204Pb					

Sample	H91-200	Tnsp1	H81-165	WT 763	EM7	4-May
Age, Ma	27		36	31.8		34.1
Long W	103 55.1	105 32	104 19.0		105 25.3	105 25
Lat N	29 31.4	32 02	30 2.0		31 49.9	31 52
SiO2	59.79	58.67	59.89	59.90	57.22	57.30
TiO2	1.27	0.19	1.20	1.14	0.11	0.72
Al2O3	17.28	17.80	16.67	15.73	17.17	17.80
Fe2O3		5.96	1.27	8.39	5.70	4.72
FeO			4.63			0.80
FeO*	6.03					
MnO	0.16	0.28	0.16	0.09		0.16
MgO	1.01	0.44	1.48	0.69	0.38	0.62
CaO	2.73	1.19	2.91	3.48	1.39	2.48
Na2O	5.87	8.12	4.18	5.05	8.09	5.91
K2O	5.47	5.33	4.69	5.18	5.28	5.75
P2O5	0.40	0.10	0.53	0.36	0.15	0.32
H2O+						0.44
H2O-						0.86
CO2						1.11
Total	98.41	98.08	100	100.01	95.49	97.88
SiO2'	59.79	59.82	59.89	59.90	59.92	60.02
(Na2O+K2O)'	11.34	13.71	8.87	10.23	14.00	12.21
Sc	11				1.92	4.5
V	27					
Cr		28			2	
Ni	5				9	
Cu	1					8
Zn	115	208			246	88
Ga	24	29				
Rb	137	157	109		184	80
Sr	277	69	460		200	359
Y	64	65	47		45	39
Zr	912	1994			1548	501
Nb	144.8	239				93
Cs		26			2.75	1.2
Ba	1447	106			260	
La	100	116	66		164	
Ce	214		137		280	
Pr						
Nd			67		90.5	
Sm			15		15.8	
Eu			3.7		1.04	
Gd						
Tb			2.2		2.69	
Dy						
Ho						
Er						
Tm						
Yb			4.9		8.59	
Lu			1		1.07	

Hf					39.83	11
Ta					11.32	4
Pb	5	29				
Th	16	39			36.13	9
U					14.78	2.6
Li						
F						
Rb/Sr	0.49	2.28	0.24		0.92	0.22
Cen/Ybn			7.56		8.81	
Eu*			0.75		0.19	
Zr/Hf					38.9	45.5
Ba/Rb	10.6	0.68			1.41	
Rb/Th	8.53	4.03			5.09	8.89
87Sr/86Sr,l						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	3-May	Tr-40	82-90	J84-10	MB8338	MV15
Age, Ma	34.1	27.2	37			34
Long W	105 25	104 05.1	104 50.6	104 54	102 59.6	105 25.8
Lat N	31 52	29 24.7	30 49	31 26	29 42.2	31 52.4
SiO2	57.50	60.09	59.25	58.87	58.50	58.49
TiO2	0.61	1.39	1.05	0.95	0.24	0.65
Al2O3	17.50	16.06	14.55	17.60	18.00	17.98
Fe2O3	4.69		5.25	2.19	6.24	5.86
FeO	1.12		1.14	3.72	0.20	
FeO*		6.03				
MnO	0.17	0.17	0.10	0.10	0.20	0.16
MgO	0.67	2.26	3.76	0.86	0.22	0.31
CaO	2.70	2.67	6.56	4.24	1.26	2.83
Na2O	5.70	4.94	3.67	5.43	6.75	4.27
K2O	5.97	5.97	2.98	3.61	5.75	6.39
P2O5	0.24	0.42	0.28	0.35	0.14	0.30
H2O+	2.13		0.54	0.10		
H2O-	0.41					
CO2	1.16		1.47	1.68	0.20	
Total	99.41	100	100.60	99.70	97.50	97.24
SiO2'	60.08	60.09	60.10	60.12	60.12	60.15
(Na2O+K2O)'	12.19	10.91	6.75	9.23	12.85	10.96
Sc	3.8	8.23				6.23
V	37	147		13		49
Cr						
Ni		14.7		7		4
Cu	13			17		
Zn	94		57	120		111
Ga						
Rb	86	117		121	180	82
Sr	220	227	489	953	40	238
Y	43	72		42		31
Zr	560	1149		467	1340	596
Nb	107	173		55		37*
Cs	1.4	2.52				1.14
Ba	554	1259	374	910		872
La	61	160				103.58
Ce	132	228				160.07
Pr						
Nd	57	94				71.36
Sm	9.5	14.3				10.83
Eu	2	3.3				2.35
Gd						
Tb	1.6	2.69				1.99
Dy						
Ho						
Er						
Tm						
Yb	3.1	8.11				3.91
Lu	0.54	0.98				0.55

Hf	11	31.5				14.4
Ta	5.9	7.49				
Pb						
Th	9.7	27.7		16		10.33
U	4					4.45
Li	53					
F				860		
Rb/Sr	0.39	0.52		0.13	4.5	0.34
Cen/Ybn	11.51	7.6				11.07
Eu*	0.62	0.66				0.62
Zr/Hf	50.9	36.5				41.4
Ba/Rb	6.44	10.8		7.52		10.6
Rb/Th	8.87	4.22		7.56		7.94
$^{87}\text{Sr}/^{86}\text{Sr}_i$	0.7053					
$^{143}\text{Nd}/^{144}\text{Nd}$						
$^{206}\text{Pb}/^{204}\text{Pb}$						
$^{207}\text{Pb}/^{204}\text{Pb}$						
$^{208}\text{Pb}/^{204}\text{Pb}$						

Sample	EM13	MM4	WBH907	MV12	MBH904	SP23
Age, Ma				34		
Long W	105 25.4	105 27.1	103 1.8	105 25.9	102 59.6	105 10
Lat N	31 50.6	31 53.3	29 42.2	31 52.6	29 49.2	31 34
SiO2	57.22	58.59	57.06	58.45	58.87	58.75
TiO2	0.17	0.05	0.27	0.28	0.22	0.06
Al2O3	17.06	18.52	17.56	17.86	17.67	16.97
Fe2O3	5.58	5.53	6.73	4.73	6.12	4.98
FeO			0.30		0.25	1.51
FeO*						
MnO		0.26	0.24	0.16	0.20	0.27
MgO	0.4	0.05	0.19	0.54	0.32	0.08
CaO	1.36	1.79	1.36	1.67	1.58	2.60
Na2O	7.32	7.20	6.04	7.15	6.41	6.94
K2O	5.38	5.37	5.57	6.03	5.86	5.88
P2O5	0.14	0.04	0.16	0.16	0.16	0.11
H2O+			1.94		1.43	1.12
H2O-			0.52		0.18	0.10
CO2			0.65		0.21	0.62
Total	95.13	97.40	97.94	97.03	99.49	99.30
SiO2'	60.15	60.15	60.17	60.24	60.27	60.28
(Na2O+K2O)'	13.35	12.91	12.24	13.58	12.56	13.15
Sc	1.92	1.23	9.4	5.51	6.1	
V		5	27		43	
Cr	2	2		1		
Ni	16	9		7		
Cu			17		16	14
Zn	230	208	135	123	146	179
Ga						
Rb	190	232	129	123	144	184
Sr	181	118	30	123	42	145
Y	45	75	52	37	63	94
Zr	1458	1351	562	719	1571	1582
Nb		256	152	52*	166	256
Cs	3.88	4.74	1.7	13.78	1.9	
Ba	281	327	271	399	171	
La	158	194		125.59	94.1	
Ce	277	304		190.37	159.8	
Pr						
Nd	89.52	96.77		72.73	69	
Sm	14.15	13.22		12.42	11.1	
Eu	1.39	0.61		1.73	1.68	
Gd					9.34	
Tb	2.44	3		2.4		
Dy					8.62	
Ho						
Er					4.88	
Tm						
Yb	7.47	7.17		5.31	3.88	
Lu	0.96	0.93		0.71	0.48	

Hf	39.42	40.64	13	19.43	25	
Ta	16.21	12.14	6.4	7.29	9.6	
Pb						
Th	36.85	41.14	10	14.71	14	
U	14.6	10.09	1	5.71	2.2	
Li			28		37	
F						
Rb/Sr	1.05	1.97	4.3	1	3.43	1.27
Cen/Ybn	10.02	11.46		9.69	11.13	
Eu*	0.29	0.12		0.39	0.49	
Zr/Hf	37	33.2	43.2	37	62.8*	
Ba/Rb	1.48	1.41	2.1	3.24	1.19	
Rb/Th	5.16	5.64	12.9	8.36	10.3	
87Sr/86Sr,l						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	R-156-8	MV13	MM914-1	H91-199	Tr-58	PP-314
Age, Ma		34		27.23	27.2	36.3
Long W		105 25.9	105 28.6	103 54.9	104 06	103 47.5
Lat N		31 52.4	31 52.3	29 31.1	29 24.7	30 18
SiO2	59.33	58.47	59.28	60.32	60.33	59.07
TiO2	1.67	0.35	0.09	1.20	1.36	1.42
Al2O3	14.58	17.77	17.03	17.39	17.21	17.60
Fe2O3	3.48	4.89	5.65			5.72
FeO	3.62					0.48
FeO*				5.85	6.26	
MnO	0.15	0.16	0.45	0.17	0.15	0.15
MgO	2.09	0.25	0.37	0.72	1.12	0.73
CaO	3.99	1.44	1.03	2.37	2.61	1.98
Na2O	4.57	7.42	9.46	6.12	4.47	5.65
K2O	4.18	6.04	4.86	5.50	6.18	4.54
P2O5	0.74	0.19	0.10	0.36	0.31	0.56
H2O+	1.60					0.89
H2O-	0.40					0.41
CO2	0.19					0.01
Total	100.59	96.98	98.32	99.38	100	99.21
SiO2'	60.29	60.29	60.29	60.32	60.33	60.34
(Na2O+K2O)'	8.89	13.88	14.56	11.62	10.65	10.41
Sc		5.49	0.75	9	8.14	
V		13		40	134	
Cr		1	1			
Ni		6	5.24	5	17.1	
Cu				2		
Zn		116	261	122	149	89
Ga				30		
Rb		100	246	157	195	89
Sr		142	65.6	255	260	357
Y		35	76.5	64	81	45
Zr		644	1401	876	1203	698
Nb		46*	204	156.1	189	103
Cs		4.91	4.48		3.29	
Ba		510	301	1405	1224	
La		123.56	206	90	109	
Ce		172.59	306	215	214	
Pr						
Nd		71.14	90.59		82	
Sm		11.66	13.49		14.9	
Eu		1.94	0.64		2.67	
Gd						
Tb		2.15	2.55		2.98	
Dy						
Ho						
Er						
Tm						
Yb		4.82	7.07		7.7	
Lu		0.63	1.01		1.1	

Hf		16.55	42.61		30.8	
Ta		7.59	19.79		9.15	
Pb				14		
Th		12.59	39.42	15	25.5	
U		4.95	15.29		3.84	
Li						
F						
Rb/Sr		0.7	3.75	0.62	0.75	0.25
Cen/Ybn		9.68	11.7		7.51	
Eu*		0.48	0.13		0.5	
Zr/Hf		38.9	32.9		39.1	
Ba/Rb		5.1	1.22	8.95	6.28	
Rb/Th		7.94	6.24	10.5	7.65	
87Sr/86Sr,l						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	MV16	MM913-1	MB8336	H91-85	AI-11	MB8342
Age, Ma	34			32	36.8	
Long W	105 25.8	105 27.2	102 59.6	103 47.6	105 38	102 59.6
Lat N	31 52.4	31 52.8	29 42.2	29 26.1	32 02	29 42.2
SiO2	58.95	57.67	58.40	60.45	58.89	58.20
TiO2	0.76	0.12	0.22	1.20	0.17	0.24
Al2O3	18.02	16.56	17.80	18.01	18.43	17.89
Fe2O3	5.85	5.67	5.93		2.29	6.13
FeO			0.40		2.05	0.20
FeO*				4.38		
MnO	0.15	0.45	0.21	0.16	0.24	0.20
MgO	0.79	0.59	0.25	1.07	0.10	0.20
CaO	2.52	1.08	1.98	4.00	0.66	1.58
Na2O	4.32	8.11	6.57	6.22	9.33	6.40
K2O	5.91	5.16	5.68	4.00	5.17	5.65
P2O5	0.38	0.10	0.12	0.49	0.07	0.13
H2O+					1.35	
H2O-					0.05	
CO2			0.90		0.05	0.70
Total	97.65	95.51	97.56	97.89	98.84	96.93
SiO2'	60.37	60.38	60.42	60.45	60.47	60.48
(Na2O+K2O)'	10.48	13.89	12.67	10.22	14.89	12.52
Sc	6.42	1.35		6	0.6	
V	34	1.53		73	77	
Cr		1				
Ni	5	1.84		4		
Cu					35	
Zn	109	244		71	213	
Ga				20		
Rb	84	224	170	80	194	160
Sr	286	68	60	676	48	30
Y	30	70.5		34	59	
Zr	523	1303	900	460	1626	670
Nb	35*	202		53.1	248	
Cs	0.93	4.15			4.3	
Ba	1012	238		964	63	
La	93.53	209		64	137.6	
Ce	156.33	283		147	233.7	
Pr						
Nd	66.54	81.96			76.8	
Sm	11.22	12.23			9.3	
Eu	2.58	0.61			1.18	
Gd					8.69	
Tb	2.04	2.33				
Dy					7.99	
Ho						
Er					4.54	
Tm						
Yb	3.86	6.15			4.05	
Lu	0.54	0.91			0.49	

Hf	13.17	40.66			35	
Ta	9.17	31.75			18	
Pb				17		
Th	9.97	37.97		12	40	
U	3.93	12.22			12	
Li					61	
F					720	
Rb/Sr	0.29	3.29	2.83	0.12	4.04	5.33
Cen/Ybn	10.95	12.44			15.6	
Eu*	0.66	0.14			0.39	
Zr/Hf	39.7	32			46.5	
Ba/Rb	12	1.06		12.1	0.32	
Rb/Th	8.43	5.9		6.64	4.85	
$^{87}\text{Sr}/^{86}\text{Sr}_i$			0.70276		0.7068	
$^{143}\text{Nd}/^{144}\text{Nd}$					0.512781	
$^{206}\text{Pb}/^{204}\text{Pb}$						
$^{207}\text{Pb}/^{204}\text{Pb}$						
$^{208}\text{Pb}/^{204}\text{Pb}$						

Sample	MB8344	CD914-2	H91-18	CD10	WB8334	MBH901
Age, Ma			33.3			
Long W	102 59.6	105 23.9	103 57.9	105 24.1	103 1.8	102 59.6
Lat N	29 42.2	31 53.5	29 20.3	31 53.8	29 42.2	29 42.2
SiO2	58.60	59.83	60.55	59.80	59.60	58.26
TiO2	0.25	0.27	1.37	0.20	0.27	0.27
Al2O3	17.80	17.62	16.50	17.92	17.60	17.43
Fe2O3	6.24	5.28		5.01	6.34	6.00
FeO	0.20				0.60	0.23
FeO*			6.23			
MnO	0.20	0.39	0.11	0.41	0.24	0.19
MgO	0.26	0.49	0.99	0.64	0.31	0.27
CaO	1.14	1.44	3.64	1.08	1.65	2.16
Na2O	6.40	7.91	5.70	8.06	6.02	6.32
K2O	5.75	5.48	4.31	5.51	5.75	5.70
P2O5	0.14	0.14	0.59	0.13	0.15	0.13
H2O+						1.49
H2O-						0.26
CO2	0.20				0.20	0.82
Total	97.02	98.85	98.35	98.76	98.53	98.67
SiO2'	60.52	60.53	60.55	60.55	60.61	60.62
(Na2O+K2O)'	12.55	13.55	10.01	13.74	11.97	12.51
Sc		3.02	9	2.97		6.1
V			31			25
Cr		1		2		
Ni		10.9	2	9.55		
Cu						10
Zn		193	130	180		144
Ga			24			
Rb	180	164	88	192	140	144
Sr	50	70	503	128	30	85
Y		55.7	52	60.1		53
Zr	910	1163	556	1343	780	743
Nb		140	70.2	143		166
Cs		2.8		3.22		1.7
Ba		183	1759	199		215
La		118	76	142		
Ce		217	151	240		
Pr						
Nd		65.49		74.47		
Sm		11.36		13.11		
Eu		0.89		0.52		
Gd						
Tb		2.08		2.2		
Dy						
Ho						
Er						
Tm						
Yb		5.16		5.92		
Lu		0.76		0.85		

Hf		31.13		33.15		16
Ta		35.21*		11.01		7.9
Pb			13			
Th		23.49	8	0.32*		15
U		9.5		10.24		1.4
Li						20
F						
Rb/Sr	3.6	2.34	0.17	1.42	4.67	1.69
Cen/Ybn		11.37		10.96		
Eu*		0.22		0.12		
Zr/Hf		37.4		40.5		46.4
Ba/Rb		1.12	20	1.04		1.49
Rb/Th		6.98	11	600*		9.6
87Sr/86Sr,l					0.70428	
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	MM5	CD15	MV14	EM863	MBH905	RH-1
Age, Ma			34			34.6
Long W	105 27.1	105 24.3	105 25.9	105 25.1	102 59.6	105 18
Lat N	31 53.3	31 54.1	31 52.4	31 51.3	29 42.2	31 39
SiO2	58.80	59.64	58.82	58.58	58.13	58.80
TiO2	0.04	0.14	0.65	0.15	0.23	0.46
Al2O3	18.39	18.20	17.59	18.06	17.44	16.90
Fe2O3	5.76	4.99	5.84	6.53	5.22	5.62
FeO					0.91	0.40
FeO*						
MnO	0.26	0.02	0.18	0.38	0.19	0.33
MgO	0.04	2.82	0.22	0.31	0.24	0.95
CaO	1.65	1.60	2.75	1.90	2.42	1.30
Na2O	6.76	5.40	4.27	4.76	6.29	5.70
K2O	5.27	5.34	6.35	5.70	5.58	5.80
P2O5	0.03	0.22	0.33	0.23	0.14	0.14
H2O+					1.50	1.58
H2O-					0.20	0.53
CO2					0.97	0.47
Total	97.00	98.37	97.00	96.60	98.49	99.48
SiO2'	60.62	60.63	60.64	60.64	60.67	60.68
(Na2O+K2O)'	12.40	10.92	10.95	10.83	12.39	11.87
Sc	1.13	2.76	6.38	1.95	6.3	
V			2		24	
Cr	2	2	1	1		
Ni	19	14	11	7		
Cu					15	
Zn	263	150	114	243	133	
Ga						
Rb	232	173	98	185	143	
Sr	109	126	190	126	74	
Y	76	35	31	55	52	
Zr	1520	1252	537	1520	680	
Nb	282		39*	89*	159	
Cs	4.81	10.56	1.42	2.86	1.3	
Ba	330	268	645	315	199	
La	222	139	91	182		
Ce	331	207	163.32	292		
Pr						
Nd	101	76.6	74.59	95.72		
Sm	14.25	13.42	11.08	14.92		
Eu	0.62	0.77	2.29	1		
Gd						
Tb	3.06	1.88	2.15	2.59		
Dy						
Ho						
Er						
Tm						
Yb	7.67	6.08	4.11	8.23		
Lu	0.96	0.86	0.59	1.04		

Hf	43.39	30.28	14.45	39.42	15
Ta	12.33	6.49	10.85	11.11	9.2
Pb					
Th	45.71	28.3	10.73	36.36	14
U	11.6	8.14	3.85	15.12	0.8
Li					35
F					
Rb/Sr	2.13	1.37	0.52	1.47	1.93
Cen/Ybn	11.66	9.2	10.74	9.59	
Eu*	0.12	0.18	0.58	0.19	
Zr/Hf	35	41.3	37.2	38.6	45.3
Ba/Rb	1.42	1.55	6.58	1.7	1.39
Rb/Th	5.08	6.11	9.13	5.09	10.2
87Sr/86Sr,l					
143Nd/144Nd					
206Pb/204Pb					
207Pb/204Pb					
208Pb/204Pb					

Sample	82-91	BB81-12	SP-20f	H91-203	EM861	84611
Age, Ma	37			27.1		35.4
Long W	104 50.6		105 10	103 56.5	105 25.5	104 13
Lat N	30 49		31 34	29 30.7	31 51.1	30 40
SiO2	60.11	60.36	57.55	60.78	59.04	61.00
TiO2	1.03	0.18	0.07	0.58	0.20	1.26
Al2O3	14.53	14.73	16.70	18.17	18.44	17.80
Fe2O3	5.15	10.31	4.92		6.65	
FeO	1.22		0.51			
FeO*				5.33		4.54
MnO	0.11	0.35	0.21	0.18	0.41	0.13
MgO	3.34		0.10	0.50	0.27	0.61
CaO	5.54	1.33	2.80	1.84	1.65	2.92
Na2O	3.66	6.21	8.80	6.72	4.76	6.10
K2O	4.07	5.72	3.86	5.79	5.48	5.45
P2O5	0.26	0.18	0.07	0.11	0.22	9.53
H2O+	0.42		1.52			
H2O-			0.16			
CO2	0.53		0.86			
Total	99.97	99.37	97.27	97.93	97.12	100.34
SiO2'	60.70	60.74	60.75	60.78	60.79	60.79
(Na2O+K2O)'	7.81	12.01	13.36	12.51	10.54	11.51
Sc		0.81		1	2.1	
V				2		
Cr					1	
Ni				4	4	
Cu			22			
Zn	58	161	236	131	244	
Ga				31		
Rb		186	142	121	178	175
Sr	435	51	261	144	73	372
Y		64	94	56	55	60
Zr		592	1591	747	1578	1172
Nb		47*	278	160.1	90*	121
Cs		2.34	0.6		2.9	
Ba	840	101		712	310	769
La				86	183	
Ce		171		208	288	
Pr						
Nd		85.96			93.17	
Sm		14.48			15.12	
Eu		2.08			1.54	
Gd						
Tb		2.16			2.82	
Dy						
Ho						
Er						
Tm						
Yb		6.05			8.93	
Lu		0.86			1.1	

Hf		13.2	34		39.87	
Ta		5.28	18		13.95	
Pb				11		
Th		16.72	26	15	35.41	
U		6.37	8.1		13.95	
Li						
F						
Rb/Sr		3.65	0.54	0.84	2.44	0.47
Cen/Ybn		7.64			8.72	
Eu*		0.43			0.29	
Zr/Hf		44.8	46.8		39.6	
Ba/Rb		0.54		5.88	1.74	4.39
Rb/Th		11.1	5.46	8.08	5.03	
⁸⁷ Sr/ ⁸⁶ Sr _l						
¹⁴³ Nd/ ¹⁴⁴ Nd						
²⁰⁶ Pb/ ²⁰⁴ Pb						
²⁰⁷ Pb/ ²⁰⁴ Pb						
²⁰⁸ Pb/ ²⁰⁴ Pb						

Sample	EM15	81-196	Tspf2	Tspf1	J84-12	CD914-1
Age, Ma		37				
Long W	105 25.2	104 52	105 32	105 32	104 54	105 24.7
Lat N	31 50.6	30 49	32 02	32 02	31 26	31 53.5
SiO2	57.56	59.98	59.20	59.00	59.83	60.51
TiO2	0.13	1.02	0.13	0.26	0.84	0.27
Al2O3	17.87	14.67	18.50	18.10	17.73	17.63
Fe2O3	5.72	4.40	4.78	4.75	4.57	5.43
FeO		1.68			1.02	
FeO*						
MnO		0.13	0.26	0.23	0.10	0.44
MgO	0.44	3.12	0.49	0.53	0.64	0.31
CaO	1.43	5.91	0.94	1.50	3.91	1.02
Na2O	6.31	3.73	7.66	7.28	5.45	7.83
K2O	5.08	3.68	5.31	5.20	3.95	5.81
P2O5	0.15	0.31	0.06	0.12	0.28	0.13
H2O+		0.53			0.42	
H2O-						
CO2		0.65			0.88	
Total	94.69	99.81	97.33	96.97	99.62	99.38
SiO2'	60.79	60.81	60.82	60.84	60.85	60.89
(Na2O+K2O)'	12.03	7.51	13.33	12.87	9.56	13.73
Sc	2.01					2.42
V		130			10	9.93
Cr	2	160		47		1
Ni	18	64			7	4.03
Cu		26			14	
Zn	232	74	216	121	110	205
Ga			30	23		
Rb	173	143	165	121	141	180
Sr	235	435	109	203	920	67.3
Y	44	30	65	40	45	54.2
Zr	1431	128	2135	1165	740	1204
Nb		29	250	157	56*	141
Cs	2.77			13		2.86
Ba	226	397		442	1000	211
La	146			84		119
Ce	258					230
Pr						
Nd	91.3					74.01
Sm	13.78					11.54
Eu	1.29					0.84
Gd						
Tb	2.47					2.27
Dy						
Ho						
Er						
Tm						
Yb	7.78					6.56
Lu	1					0.83

Hf	39.09					32.95
Ta	13.1					39.67*
Pb			38	22		
Th	35.29		46	22		23.48
U	12.22					8.09
Li						
F		530			1300	
Rb/Sr	0.74	0.93	1.51	0.6	0.15	2.67
Cen/Ybn	8.96					9.48
Eu*	0.27					0.2
Zr/Hf	36.6					36.5
Ba/Rb	1.31	2.78		3.65	7.09	1.17
Rb/Th	4.9		3.59	5.5		7.67
87Sr/86Sr,l						
143Nd/144Nd						
206Pb/204Pb						
207Pb/204Pb						
208Pb/204Pb						

Sample	MM3	Tr-59	Corn34	DM-5
Age, Ma		27.2		
Long W	105 27.1	104 06.1	105 32	105 31
Lat N	31 53.3	29 24.7	32 02	31 54
SiO2	58.15	60.90	58.00	59.03
TiO2	0.07	1.39	0.08	0.11
Al2O3	18.03	16.43	17.70	17.81
Fe2O3	5.43		4.58	4.40
FeO				0.63
FeO*		6.34		
MnO	0.28	0.17	0.27	0.31
MgO	0.04	1.28	0.19	0.13
CaO	1.34	3.11	0.73	0.90
Na2O	7.02	4.32	8.04	8.28
K2O	5.16	5.72	5.48	5.15
P2O5	0.03	0.35	0.08	0.04
H2O+				1.92
H2O-				0.20
CO2				
Total	95.5	100.01	95.15	98.90
SiO2'	60.89	60.89	60.96	60.99
(Na2O+K2O)'	12.75	10.04	14.21	13.88
Sc	1.81	9.45		0.7
V	44	121		66
Cr	3		13	
Ni	18	11.1		
Cu				19
Zn	220	126	353	246
Ga			32	
Rb	248	168	200	191
Sr	94	297	62	19
Y	72	71	138	83
Zr	1711	1184	2843	1731
Nb	255	169	360	311
Cs	4.54	0.94	23	2.7
Ba	150	1262	89	14
La	148	102	184	163.7
Ce	305	206		289.9
Pr				
Nd	83.98	82		100.6
Sm	14.1	15.6		14.4
Eu	0.47	2.71		0.82
Gd				11.96
Tb	1.71	2.84		
Dy				11.93
Ho				
Er				7.33
Tm				
Yb	6.33	6.97		7.53
Lu	0.86	0.98		1.04

Hf	39.46	29.8		37
Ta	9.28	16.3		21
Pb			55	24
Th	40.93	23.9	77	38
U	9.96	4.71		9.8
Li				56
F				
Rb/Sr	2.64	0.57	3.23	10.1
Cen/Ybn	13.03	7.99		10.41
Eu*	0.11	0.50		0.18
Zr/Hf	43.4	39.7		46.8
Ba/Rb	0.6	7.51	0.45	0.07
Rb/Th	6.06	7.03	2.6	5.03
87Sr/86Sr,l				
143Nd/144Nd				0.512884
206Pb/204Pb				18.157
207Pb/204Pb				15.506
208Pb/204Pb				38.104