Appendix 2: Normalized Analyses of Samples in the San Francisco Mountain Volcanic System and CIPW Norms. Analyses and norms are in weight percent.

Notes:

1. See Appendix 1 for definitions of sample numbers.
2. CIPW norms calculated by Igpet For Windows (M.J. Carr, 1994) with FeO/Fe_2O_3 adjusted by the formula used by Irvine and Baragar, 1971.
3. LOI is loss on ignition.
4. FeOt is total iron as FeO normalized.
5. FeO* is $FeO+0.8998Fe_2O_3$ not normalized.
6. Mg#:100MgO/(MgO+FeO), where the oxides are first divided by their molecular weights.
7. %AN:100an/(an+ab)

Abbreviations of CIPW norm minerals:

ab:	albite
ac:	acmite
an:	anorthite
ap:	apatite
C:	corundum
di:	diopside
hem:	hematite
hy:	hypersthene
il:	ilmenite
lc:	leucite
mt:	magnetite
ne:	nepheline
NMS:	sodium metasilicate
ol:	olivine
or:	orthoclase
Q:	quartz
ru:	rutile
ti:	sphene

Note: Samples 3604KPr and 3616AHHr are out of numerical order at the end of the file

Sample	1807EMt	1807AEMt	2602SFla	2602ASFt	2613SFbe	2703SFt	2704SFt	2704ASFt
SiO2	66.82	66.31	60.59	66.84	60.70	62.33	66.53	64.35
TiO2	0.51	0.55	1.01	0.41	0.99	1.08	0.61	0.82
Al2O3	16.04	16.27	17.44	16.56	18.47	16.74	16.19	16.73
FeO	4.48	4.56	6.72	4.24	5.57	5.89	4.65	5.22
MnO	0.10	0.11	0.15	0.00	0.11	0.10	0.11	0.12
MgO	0.75	0.74	1.66	0.43	1.24	1.63	0.74	1.19
CaO	2.50	2.65	4.06	2.03	4.58	3.95	2.37	3.02
Na2O	5.43	5.36	4.77	5.63	5.50	4.94	5.37	5.21
K2O	3.16	3.23	3.08	3.73	2.42	2.98	3.21	3.02
P2O5	0.21	0.22	0.51	0.13	0.42	0.36	0.23	0.32
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	0.00	0.00	0.69	0.00	1.10	0.46	0.18	0.11
CO2	0.00	0.00	0.24	0.00	0.08	0.06	0.25	0.28
FeOt	4.48	4.56	6.72	4.24	5.57	5.89	4.65	5.22
FeO*	4.41	4.44	6.55	4.16	5.49	5.83	4.60	5.14
Mg#	23.03	22.44	30.59	15.26	28.36	33.12	22.07	28.88
Density	2.40	2.40	2.48	2.39	2.46	2.46	2.40	2.43
%AN	17.96	19.21	29.35	15.70	28.52	25.99	18.39	22.56
Q	16.28	15.61	9.17	14.17	8.09	11.55	16.35	13.97
or	18.62	19.05	18.18	22.02	14.29	17.54	18.92	17.78
ab	45.87	45.27	40.30	47.56	46.39	41.72	45.30	43.97
an	10.05	10.76	16.74	8.86	18.51	14.65	10.21	12.81
C	0.00	0.00	0.10	0.00	0.00	0.00	0.14	0.20
di	0.78	0.81	0.00	0.28	1.20	2.08	0.00	0.00
hy	4.01	3.94	8.73	3.23	5.04	5.82	4.31	5.58
mt	2.94	3.02	3.69	2.80	3.64	3.75	3.08	3.39
il	0.96	1.03	1.92	0.77	1.88	2.04	1.15	1.56
ap	0.49	0.50	1.18	0.31	0.96	0.84	0.54	0.75

Sample	2704BSFbe	2704CSFt	2704DSPt	2705ASFpr	2705BSFpr	2705DSFmu	2705ESFbe	2705FSFbe
SiO2	58.55	66.86	64.69	74.11	74.74	55.20	60.38	60.46
TiO2	1.58	0.51	0.59	0.11	0.14	1.61	0.99	1.00
Al2O3	16.92	16.06	16.96	13.10	12.93	17.05	18.87	18.61
FeO	7.62	4.48	4.59	2.45	2.13	9.06	5.44	5.52
MnO	0.14	0.11	0.13	0.00	0.06	0.00	0.00	0.00
MgO	2.50	0.72	0.83	0.00	0.02	3.76	1.48	1.59
CaO	5.13	2.28	2.40	0.13	0.05	6.81	4.93	4.90
Na2O	4.79	5.31	5.94	5.79	5.53	4.40	5.19	5.19
K2O	2.24	3.41	3.63	4.32	4.36	1.72	2.32	2.32
P2O5	0.52	0.24	0.24	0.00	0.04	0.38	0.40	0.41
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	0.37	0.41	0.28	0.26	0.20	0.00	0.00	0.00
CO2	0.15	0.42	0.26	0.00	0.36	0.00	0.00	0.00
Ba	0.	0.	0.	8.	0.	0.	0.	0.
Rb	0.	0.	0.	139.	0.	0.	0.	0.
Sr	0.	0.	0.	14.	0.	0.	0.	0.
Zn	0.	0.	0.	163.	0.	0.	0.	0.
Zr	0.	0.	0.	900.	0.	0.	0.	0.
Y	0.	0.	0.	61.	0.	0.	0.	0.
Li	0.	0.	0.	55.	0.	0.	0.	0.
Co	0.	0.	0.	2.	0.	0.	0.	0.
Cr	0.	0.	0.	2.	0.	0.	0.	0.
Cu	0.	0.	0.	6.	0.	0.	0.	0.
Ga	0.	0.	0.	46.	0.	0.	0.	0.
Ni	0.	0.	0.	4.	0.	0.	0.	0.
Sc	0.	0.	0.	2.	0.	0.	0.	0.
V	0.	0.	0.	2.	0.	0.	0.	0.
FeOt	7.62	4.48	4.59	2.45	2.13	9.06	5.44	5.52
FeO*	7.56	4.40	4.52	2.45	2.10	9.01	5.37	5.44
Mg#	36.91	22.35	24.44	0.00	1.67	42.54	32.64	33.96
Density	2.52	2.40	2.41	2.32	2.32	2.57	2.47	2.47
%AN	30.82	17.80	15.04	0.00	0.00	36.86	32.68	31.93
Q	7.91	16.44	9.72	24.48	26.53	3.13	8.80	8.84
or	13.19	20.09	21.43	25.47	25.69	10.14	13.66	13.69
ab	40.40	44.87	50.13	43.28	42.21	37.09	43.83	43.82
an	18.00	9.71	8.88	0.00	0.00	21.65	21.27	20.56
C	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
di	3.23	0.00	1.16	0.58	0.00	7.80	0.39	0.84
hy	8.59	4.34	3.95	1.73	0.83	11.76	5.60	5.76
ac	0.00	0.00	0.00	3.99	3.94	0.00	0.00	0.00
mt	4.47	2.95	3.05	0.00	0.44	4.51	3.63	3.65
il	3.00	0.97	1.12	0.21	0.27	3.05	1.88	1.90
ti	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00
ap	1.21	0.57	0.56	0.00	0.09	0.88	0.94	0.94
ru	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NMS	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00

Sample	2705GSFbe	2706SFla	2712SPt	2722SFt	2725EMt	2725AEMt	2725BEMt	2727DLt
SiO2	59.56	61.62	66.24	67.22	65.44	66.49	66.38	62.21
TiO2	1.53	0.96	0.50	0.40	0.55	0.62	0.55	0.90
Al2O3	16.79	19.38	16.39	17.31	17.37	16.65	16.50	16.96
FeO	7.87	5.28	4.24	3.57	4.59	3.83	4.48	6.00
MnO	0.00	0.00	0.12	0.07	0.00	0.00	0.00	0.13
MgO	2.09	1.45	0.72	0.53	0.89	0.77	0.66	1.49
CaO	4.11	3.63	2.16	2.21	2.60	2.65	2.49	3.65
Na2O	5.01	4.58	5.69	4.92	5.13	5.54	5.40	5.41
K2O	2.55	2.76	3.75	3.58	3.18	3.19	3.31	2.80
P2O5	0.48	0.33	0.19	0.19	0.24	0.25	0.24	0.46
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	0.00	0.00	0.26	2.98	0.00	0.00	0.00	0.20
CO2	0.00	0.00	0.14	0.41	0.00	0.00	0.00	0.11
FeOt	7.87	5.28	4.24	3.57	4.59	3.83	4.48	6.00
FeO*	7.66	4.98	4.20	3.45	4.54	3.78	4.37	5.92
Mg#	32.10	32.89	23.15	20.87	25.70	26.39	20.69	30.68
Density	2.50	2.45	2.39	2.39	2.41	2.40	2.40	2.46
%AN	27.17	29.04	14.42	18.94	20.68	19.17	19.11	23.08
Q	8.44	14.52	12.90	19.34	16.05	15.64	15.65	9.83
or	15.02	16.29	22.13	21.09	18.76	18.83	19.50	16.53
ab	42.24	38.69	48.05	41.57	43.36	46.81	45.63	45.63
an	15.76	15.83	8.09	9.71	11.30	11.10	10.78	13.69
C	0.00	3.03	0.00	1.77	1.33	0.00	0.07	0.00
di	1.18	0.00	1.12	0.00	0.00	0.28	0.00	1.18
hy	8.90	5.37	3.39	2.48	4.62	2.49	3.75	6.87
mt	4.44	3.69	2.92	2.83	2.99	3.09	3.02	3.50
il	2.90	1.82	0.96	0.77	1.04	1.17	1.05	1.71
ap	1.12	0.76	0.44	0.43	0.56	0.59	0.54	1.05

Sample	2733SFt	2736EMt	2736AEMtd	2818SPt	2830EMt	3612WHr	3612BWHbe	3612CWHla
SiO2	66.42	65.69	66.45	63.81	65.44	74.55	60.38	60.96
TiO2	0.53	0.50	0.51	0.71	0.64	0.08	1.39	1.17
Al2O3	15.89	16.42	17.26	16.67	16.44	13.71	17.76	17.15
FeO	4.64	4.61	4.40	5.10	4.82	1.80	6.14	6.31
MnO	0.11	0.16	0.00	0.14	0.00	0.00	0.13	0.14
MgO	0.86	0.80	0.87	1.15	0.93	0.23	1.12	1.87
CaO	2.56	2.70	2.61	3.09	2.76	0.75	4.80	4.19
Na2O	5.45	5.31	4.53	5.52	5.55	4.89	5.03	4.26
K2O	3.29	3.20	3.12	3.52	3.15	3.98	2.76	3.46
P2O5	0.23	0.60	0.25	0.29	0.26	0.00	0.50	0.49
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	0.67	0.19	0.36	1.26	0.00	0.19	0.00	0.00
CO2	0.01	0.05	0.00	0.26	0.00	0.00	0.00	0.00
Ba	0.	1000.	0.	0.	0.	0.	0.	0.
Rb	0.	51.	0.	0.	0.	0.	0.	0.
Sr	0.	530.	0.	0.	0.	0.	0.	0.
Zn	0.	81.	0.	0.	0.	0.	0.	0.
Zr	0.	300.	0.	0.	0.	0.	0.	0.
Y	0.	26.	0.	0.	0.	0.	0.	0.
Cd	0.	1.	0.	0.	0.	0.	0.	0.
Li	0.	67.	0.	0.	0.	0.	0.	0.
Co	0.	4.	0.	0.	0.	0.	0.	0.
Cr	0.	4.	0.	0.	0.	0.	0.	0.
Cu	0.	20.	0.	0.	0.	0.	0.	0.
Ga	0.	31.	0.	0.	0.	0.	0.	0.
Ni	0.	2.	0.	0.	0.	0.	0.	0.
Sc	0.	4.	0.	0.	0.	0.	0.	0.
V	0.	18.	0.	0.	0.	0.	0.	0.
FeOt	4.64	4.61	4.40	5.10	4.82	1.80	6.14	6.31
FeO*	4.60	4.60	4.36	5.01	4.76	1.80	5.86	6.03
Mg#	24.78	23.67	26.01	28.68	25.63	18.59	24.57	34.62
Density	2.40	2.42	2.41	2.43	2.41	2.32	2.48	2.47
%AN	16.58	17.44	22.79	18.08	18.47	8.22	29.43	32.59
Q	15.11	15.88	20.94	9.80	13.67	28.41	9.77	11.13
or	19.41	18.90	18.43	20.78	18.58	23.48	16.24	20.37
ab	46.05	44.82	38.22	46.61	46.88	41.35	42.43	35.97
an	9.15	9.47	11.28	10.29	10.62	3.70	17.69	17.39
C	0.00	0.75	2.28	0.00	0.00	0.00	0.00	0.00
di	1.70	0.00	0.00	2.61	1.08	0.03	2.26	0.10
hy	4.09	4.95	4.35	4.96	4.23	1.65	3.53	7.71
mt	2.95	2.90	2.93	2.95	3.12	1.22	4.29	3.97
il	1.00	0.95	0.97	1.35	1.21	0.15	2.64	2.22
ap	0.54	1.39	0.58	0.66	0.61	0.00	1.16	1.14

Sample	3614SFla	3614ASFt	3622SFt	3707SFmu	3707ASFla	3710SFt	3711SFbe	3712SFt
SiO2	61.38	63.09	65.70	56.55	60.44	65.02	62.09	63.61
TiO2	0.99	0.96	0.68	1.68	1.33	0.72	0.98	0.72
Al2O3	17.63	16.95	15.89	17.51	17.23	16.24	17.03	17.99
FeO	5.82	5.56	5.02	8.64	6.62	5.05	6.24	5.38
MnO	0.10	0.08	0.10	0.14	0.11	0.12	0.00	0.08
MgO	1.61	1.53	1.03	3.09	2.01	1.04	1.66	1.02
CaO	4.49	3.98	2.77	6.12	4.33	2.86	3.85	3.56
Na2O	4.75	4.80	5.23	4.08	4.72	5.55	4.99	5.08
K2O	2.85	2.65	3.28	1.87	2.81	3.08	2.74	2.13
P2O5	0.38	0.39	0.31	0.33	0.39	0.32	0.42	0.44
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	1.45	0.76	1.02	0.00	0.00	0.22	0.00	0.86
CO2	0.20	0.01	0.02	0.00	0.00	0.21	0.00	0.04
FeOt	5.82	5.56	5.02	8.64	6.62	5.05	6.24	5.38
FeO*	5.71	5.45	4.90	8.44	6.57	4.99	6.15	5.29
Mg#	33.04	32.92	26.68	38.95	35.07	26.92	32.21	25.21
Density	2.46	2.45	2.42	2.55	2.48	2.42	2.46	2.44
%AN	31.33	29.35	18.74	40.91	30.51	18.06	27.42	25.60
Q	10.80	14.15	14.98	7.29	9.92	13.29	11.42	16.34
or	16.78	15.65	19.34	11.03	16.57	18.14	16.15	12.58
ab	40.12	40.50	44.14	34.43	39.81	46.83	42.14	42.90
an	18.31	16.82	10.18	23.84	17.48	10.32	15.92	14.76
C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89
di	1.18	0.29	1.27	3.51	1.15	1.45	0.33	0.00
hy	6.42	6.27	5.12	11.33	7.54	4.63	7.59	6.06
mt	3.64	3.60	2.97	4.64	4.11	3.24	3.62	3.09
il	1.87	1.82	1.28	3.18	2.52	1.36	1.86	1.37
ap	0.87	0.90	0.71	0.76	0.91	0.75	0.96	1.01

Sample	3713ANSt	3719SFmu	3720SFt	3721SFbe	3723SUr	3723BSUr	3725SFbe	3727SFt
SiO2	68.58	55.78	64.45	58.03	74.68	75.67	55.94	63.83
TiO2	0.31	1.69	0.78	1.58	0.00	0.02	1.88	0.89
Al2O3	16.72	17.51	16.74	17.18	14.69	13.49	17.10	16.71
FeO	2.50	8.70	4.88	7.97	0.79	0.99	9.49	5.30
MnO	0.15	0.14	0.10	0.08	0.06	0.00	0.00	0.13
MgO	0.50	3.52	1.25	2.82	0.16	0.06	2.88	1.32
CaO	1.51	6.21	3.44	5.59	0.42	0.57	4.84	3.16
Na2O	5.44	4.14	5.12	4.23	5.00	4.27	5.05	5.31
K2O	4.13	1.90	2.95	2.15	4.18	4.93	2.23	2.97
P2O5	0.16	0.40	0.28	0.37	0.01	0.00	0.59	0.38
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	0.48	0.64	0.36	0.14	2.04	1.86	0.00	0.25
CO2	0.05	0.18	0.18	0.00	0.03	0.00	0.00	0.10
Ba	1350.	0.	0.	0.	2.	2.	0.	0.
Rb	85.	0.	0.	0.	275.	265.	0.	0.
Sr	122.	0.	0.	0.	5.	13.	0.	0.
Zn	81.	0.	0.	0.	105.	93.	0.	0.
Zr	47.	0.	0.	0.	24.	53.	0.	0.
Y	5.	0.	0.	0.	42.	43.	0.	0.
Cd	0.	0.	0.	0.	1.	0.	0.	0.
Li	29.	0.	0.	0.	500.	86.	0.	0.
Co	2.	0.	0.	0.	2.	2.	0.	0.
Cr	2.	0.	0.	0.	2.	2.	0.	0.
Cu	1.	0.	0.	0.	6.	1.	0.	0.
Ga	25.	0.	0.	0.	38.	38.	0.	0.
Ni	2.	0.	0.	0.	2.	6.	0.	0.
Sc	4.	0.	0.	0.	4.	4.	0.	0.
V	2.	0.	0.	0.	2.	2.	0.	0.
87Sr/86Sr	0.7042	0.0000	0.0000	0.0000	0.0000	0.7031	0.0000	0.0000
FeOt	2.50	8.70	4.88	7.97	0.79	0.99	9.49	5.30
FeO*	2.48	8.54	4.81	7.91	0.77	0.96	9.39	5.27
Mg#	26.45	41.93	31.34	38.69	26.96	9.98	35.13	30.69
Density	2.36	2.56	2.43	2.53	2.31	2.31	2.55	2.44
%AN	12.28	40.27	24.42	37.59	4.53	7.28	28.96	22.46
Q	17.58	4.09	14.19	8.79	28.19	30.61	2.93	12.41
or	24.36	11.23	17.42	12.69	24.71	29.10	13.16	17.49
ab	45.93	34.92	43.20	35.67	42.29	36.13	42.55	44.83
an	6.43	23.54	13.96	21.48	2.01	2.84	17.35	12.98
C	0.94	0.00	0.00	0.00	1.20	0.09	0.00	0.00
di	0.00	3.83	1.00	3.04	0.00	0.00	2.28	0.13
hy	1.25	15.38	4.75	10.01	1.03	0.15	11.91	6.60
mt	2.35	2.87	3.33	4.47	0.55	0.90	4.91	2.98
il	0.59	3.20	1.48	2.99	0.00	0.04	3.56	1.70
hem	0.20	0.00	0.00	0.00	0.00	0.15	0.00	0.00
ap	0.37	0.92	0.66	0.86	0.02	0.00	1.35	0.88

Sample	3727ASFt	3728SFbe	3728ASFbe	3728BSFt	3728CSFbe	3728DSFt	3728ESFbe	3729SFt
SiO2	63.16	60.18	59.47	65.51	59.57	66.39	58.66	64.25
TiO2	0.96	1.14	1.19	0.65	1.26	0.49	1.60	0.66
Al2O3	16.79	17.90	17.89	16.27	17.26	16.48	16.78	16.54
FeO	5.30	6.18	6.60	4.43	6.54	4.20	7.62	4.69
MnO	0.09	0.12	0.13	0.17	0.10	0.06	0.10	0.13
MgO	1.53	1.79	1.93	0.82	2.62	0.69	2.39	1.30
CaO	3.80	4.57	4.69	2.64	5.82	2.51	5.24	3.11
Na2O	5.08	5.09	5.13	6.00	4.33	5.60	4.76	5.81
K2O	2.99	2.49	2.44	3.30	2.21	3.37	2.49	3.21
P2O5	0.29	0.53	0.53	0.21	0.29	0.21	0.35	0.29
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	0.28	0.65	0.93	1.10	1.14	1.16	1.99	0.46
CO2	0.13	0.09	0.36	0.05	0.03	0.06	0.05	0.05
Ba	0.	0.	0.	0.	0.	0.	0.	1050.
Rb	0.	0.	0.	0.	0.	0.	0.	52.
Sr	0.	0.	0.	0.	0.	0.	0.	560.
Zn	0.	0.	0.	0.	0.	0.	0.	83.
Zr	0.	0.	0.	0.	0.	0.	0.	315.
Y	0.	0.	0.	0.	0.	0.	0.	17.
Cd	0.	0.	0.	0.	0.	0.	0.	2.
Li	0.	0.	0.	0.	0.	0.	0.	54.
Co	0.	0.	0.	0.	0.	0.	0.	4.
Cr	0.	0.	0.	0.	0.	0.	0.	2.
Cu	0.	0.	0.	0.	0.	0.	0.	6.
Ga	0.	0.	0.	0.	0.	0.	0.	30.
Ni	0.	0.	0.	0.	0.	0.	0.	2.
Sc	0.	0.	0.	0.	0.	0.	0.	5.
V	0.	0.	0.	0.	0.	0.	0.	15.
87Sr/86Sr	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7035
FeOt	5.30	6.18	6.60	4.43	6.54	4.20	7.62	4.69
FeO*	5.26	6.13	6.46	4.34	6.45	4.15	7.43	4.68
Mg#	34.00	34.10	34.27	24.73	41.64	22.61	35.87	33.12
Density	2.44	2.48	2.49	2.40	2.50	2.40	2.51	2.42
%AN	24.76	30.24	29.98	13.23	36.58	17.27	29.69	16.27
Q	12.11	8.76	7.43	11.66	10.01	14.41	7.31	10.05
or	17.65	14.67	14.39	19.48	13.03	19.88	14.70	18.92
ab	42.89	42.94	43.28	50.62	36.54	47.28	40.18	49.09
an	14.12	18.62	18.53	7.72	21.07	9.87	16.97	9.54
di	2.27	0.44	0.99	3.27	4.72	0.98	5.42	3.24
hy	4.90	7.36	7.98	2.37	7.73	3.27	7.04	4.19
mt	3.57	3.83	3.93	3.16	3.84	2.90	4.54	3.05
il	1.81	2.16	2.24	1.24	2.38	0.92	3.03	1.25
ap	0.68	1.23	1.23	0.49	0.68	0.49	0.81	0.67

Sample	3729ASFbe	3729CSFbe	3729DSFbe	3729ESFbe	3729FSFtd	3729GSFt	3729HSFt	3729ISFbe
SiO2	58.93	56.37	59.78	57.47	66.66	64.91	66.52	60.36
TiO2	1.57	1.66	1.16	1.58	0.59	0.80	0.61	1.13
Al2O3	15.66	17.23	17.19	17.14	16.59	16.68	16.37	17.66
FeO	7.68	8.21	6.46	7.53	4.41	4.76	4.16	6.43
MnO	0.15	0.09	0.13	0.17	0.00	0.06	0.10	0.12
MgO	3.11	3.32	2.02	2.82	0.87	0.93	0.90	1.90
CaO	5.22	6.02	4.35	5.34	2.76	3.07	2.79	4.24
Na2O	4.92	4.67	5.66	5.14	4.56	5.14	5.10	5.01
K2O	2.41	1.87	2.73	2.32	3.37	3.45	3.21	2.62
P2O5	0.35	0.55	0.51	0.47	0.19	0.18	0.24	0.52
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	0.84	2.50	0.66	0.40	0.16	0.28	0.25	1.31
CO2	0.05	0.06	0.05	0.05	0.00	0.00	0.15	0.10
Ba	900.	0.	0.	0.	0.	0.	1150.	0.
Rb	43.	0.	0.	0.	0.	0.	58.	0.
Sr	640.	0.	0.	0.	0.	0.	540.	0.
Zn	94.	0.	0.	0.	0.	0.	68.	0.
Zr	215.	0.	0.	0.	0.	0.	270.	0.
Y	29.	0.	0.	0.	0.	0.	16.	0.
Cd	2.	0.	0.	0.	0.	0.	0.	0.
Li	62.	0.	0.	0.	0.	0.	35.	0.
Co	23.	0.	0.	0.	0.	0.	8.	0.
Cr	4.	0.	0.	0.	0.	0.	3.	0.
Cu	32.	0.	0.	0.	0.	0.	8.	0.
Ga	36.	0.	0.	0.	0.	0.	30.	0.
Ni	10.	0.	0.	0.	0.	0.	4.	0.
Sc	20.	0.	0.	0.	0.	0.	8.	0.
V	100.	0.	0.	0.	0.	0.	16.	0.
87Sr/86Sr	0.0000	0.0000	0.0000	0.0000	0.7033	0.0000	0.0000	0.0000
FeOt	7.68	8.21	6.46	7.53	4.41	4.76	4.16	6.43
FeO*	7.65	7.91	6.39	7.47	4.40	4.74	4.11	6.29
Mg#	41.95	41.91	35.82	40.06	26.04	25.93	27.84	34.51
Density	2.51	2.55	2.48	2.52	2.40	2.42	2.40	2.48
%AN	24.54	34.19	21.89	27.90	24.36	21.95	22.14	29.35
Q	5.43	4.90	4.89	3.37	19.64	13.87	16.82	9.08
or	14.21	11.01	16.10	13.67	19.86	20.32	18.92	15.47
ab	41.54	39.40	47.80	43.40	38.51	43.43	43.07	42.31
an	13.51	20.47	13.39	16.80	12.41	12.21	12.24	17.57
C	0.00	0.00	0.00	0.00	0.88	0.00	0.01	0.12
di	8.27	4.65	3.95	5.38	0.00	1.50	0.00	0.00
hy	10.22	10.51	6.63	9.65	4.10	3.38	4.65	8.26
mt	3.05	4.65	3.88	3.65	3.03	3.34	2.58	3.85
il	2.97	3.14	2.20	3.00	1.12	1.52	1.15	2.15
ap	0.81	1.27	1.17	1.10	0.44	0.42	0.56	1.20

Sample	3729JSFbe	3729KSFbe	3729LSFla	3729MSFbe	3729QSFmu	3732SFbe	3732%SFbe	3732+SFa
SiO2	60.45	56.96	61.57	61.56	56.03	60.28	58.06	57.44
TiO2	1.11	1.59	1.14	1.01	1.65	1.04	1.60	1.57
Al2O3	17.29	17.27	16.79	16.72	17.52	18.48	17.17	17.50
FeO	6.21	8.02	5.91	6.20	8.50	5.40	7.93	7.46
MnO	0.12	0.12	0.10	0.11	0.00	0.08	0.00	0.00
MgO	1.92	3.08	1.81	1.61	3.41	1.69	2.59	3.44
CaO	4.42	5.83	4.24	4.05	6.43	4.99	5.48	6.45
Na2O	5.34	4.65	4.98	5.37	4.31	5.34	4.63	4.23
K2O	2.64	1.99	3.09	2.80	1.75	2.27	2.04	1.66
P2O5	0.50	0.48	0.36	0.56	0.40	0.45	0.51	0.25
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	1.66	1.51	1.54	1.70	0.00	1.29	0.00	0.00
CO2	0.26	0.09	0.05	0.03	0.00	0.05	0.00	0.00
Ba	0.	0.	0.	0.	0.	880.	0.	0.
Rb	0.	0.	0.	0.	0.	27.	0.	0.
Sr	0.	0.	0.	0.	0.	840.	0.	0.
Zn	0.	0.	0.	0.	0.	120.	0.	0.
Zr	0.	0.	0.	0.	0.	250.	0.	0.
Y	0.	0.	0.	0.	0.	19.	0.	0.
Cd	0.	0.	0.	0.	0.	2.	0.	0.
Li	0.	0.	0.	0.	0.	67.	0.	0.
Co	0.	0.	0.	0.	0.	8.	0.	0.
Cr	0.	0.	0.	0.	0.	2.	0.	0.
Cu	0.	0.	0.	0.	0.	8.	0.	0.
Ga	0.	0.	0.	0.	0.	36.	0.	0.
Ni	0.	0.	0.	0.	0.	2.	0.	0.
Sc	0.	0.	0.	0.	0.	8.	0.	0.
V	0.	0.	0.	0.	0.	44.	0.	0.
FeOt	6.21	8.02	5.91	6.20	8.50	5.40	7.93	7.46
FeO*	6.11	7.85	5.80	6.06	8.34	5.30	7.81	7.35
Mg#	35.53	40.68	35.26	31.60	41.73	35.82	36.80	45.12
Density	2.48	2.54	2.46	2.47	2.55	2.47	2.52	2.53
%AN	25.46	34.14	25.40	22.54	38.98	30.40	33.87	39.98
Q	7.55	5.63	9.44	9.12	5.53	8.11	8.08	8.05
or	15.58	11.73	18.23	16.53	10.32	13.37	12.02	9.80
ab	45.04	39.20	42.03	45.34	36.34	45.08	39.03	35.68
an	15.38	20.32	14.31	13.19	23.22	19.69	19.99	23.77
di	2.66	4.39	3.58	2.63	4.87	1.67	3.10	5.22
hy	6.75	10.08	5.97	6.29	11.09	5.37	9.06	9.44
mt	3.81	4.52	3.45	3.68	4.59	3.71	4.52	4.47
il	2.10	3.02	2.17	1.92	3.12	1.97	3.04	2.98
ap	1.15	1.11	0.83	1.30	0.92	1.03	1.17	0.59

Sample	3732ASFbe	3732CSFbe	3732DSFbe	3732ESFm	3732FSFt	3732GSFbe	3732HSFbe	3732ISFbe
SiO2	59.86	59.39	60.81	58.12	66.30	59.95	59.52	59.53
TiO2	1.31	1.18	1.44	1.55	0.59	1.06	0.95	1.05
Al2O3	16.98	17.89	16.28	16.43	15.92	17.11	16.80	18.12
FeO	6.55	6.24	6.63	7.67	4.17	6.47	6.65	5.56
MnO	0.13	0.12	0.10	0.15	0.10	0.14	0.11	0.13
MgO	2.02	2.31	2.15	2.84	1.01	2.23	3.14	2.02
CaO	4.89	5.13	4.61	5.48	3.02	4.46	5.36	5.16
Na2O	5.25	5.13	4.91	5.17	5.54	5.57	4.76	5.57
K2O	2.50	2.21	2.76	2.23	3.12	2.53	2.43	2.43
P2O5	0.52	0.41	0.31	0.36	0.22	0.48	0.27	0.43
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	1.65	0.36	1.32	0.63	0.30	0.67	0.40	0.38
CO2	0.08	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Ba	1100.	0.	0.	0.	0.	0.	0.	0.
Rb	40.	0.	0.	0.	0.	0.	0.	0.
Sr	680.	0.	0.	0.	0.	0.	0.	0.
Zn	97.	0.	0.	0.	0.	0.	0.	0.
Zr	285.	0.	0.	0.	0.	0.	0.	0.
Y	26.	0.	0.	0.	0.	0.	0.	0.
Li	16.	0.	0.	0.	0.	0.	0.	0.
Co	12.	0.	0.	0.	0.	0.	0.	0.
Cr	2.	0.	0.	0.	0.	0.	0.	0.
Cu	14.	0.	0.	0.	0.	0.	0.	0.
Ga	30.	0.	0.	0.	0.	0.	0.	0.
Ni	4.	0.	0.	0.	0.	0.	0.	0.
Sc	20.	0.	0.	0.	0.	0.	0.	0.
V	66.	0.	0.	0.	0.	0.	0.	0.
87Sr/86Sr	0.7041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FeOt	6.55	6.24	6.63	7.67	4.17	6.47	6.65	5.56
FeO*	6.40	6.21	6.48	7.56	4.14	6.39	6.57	5.49
Mg#	35.43	39.78	36.62	39.78	30.10	38.04	45.69	39.38
Density	2.49	2.49	2.48	2.52	2.40	2.48	2.50	2.48
%AN	25.76	30.77	25.45	25.56	16.61	23.18	30.08	26.83
Q	7.53	7.17	9.66	4.23	14.88	5.54	6.21	4.58
or	14.71	13.03	16.29	13.15	18.42	14.92	14.33	14.33
ab	44.28	43.25	41.45	43.66	46.79	47.01	40.17	47.01
an	15.36	19.22	14.15	14.99	9.32	14.18	17.28	17.24
di	4.42	2.80	5.37	8.03	3.43	3.90	6.13	4.53
hy	5.90	7.46	5.34	8.37	2.47	7.60	10.36	6.25
mt	4.11	3.88	4.31	3.81	3.05	3.73	3.08	3.08
il	2.48	2.23	2.73	2.94	1.13	2.01	1.80	2.00
ap	1.21	0.95	0.71	0.82	0.51	1.10	0.63	0.98

Sample	3732JSFmu	3732KSFmu	3732LSFla	3732MSFbe	3732NSFpr	3732OSFbe	3732PSFt	3732QSFbe
SiO2	52.26	53.42	60.91	60.31	74.41	60.29	68.19	59.18
TiO2	1.63	1.52	1.09	0.99	0.14	1.26	0.37	1.55
Al2O3	18.36	19.06	17.36	18.92	12.83	17.28	15.25	17.25
FeO	8.99	8.87	6.41	5.42	2.17	6.27	3.72	7.75
MnO	0.16	0.11	0.00	0.11	0.06	0.12	0.14	0.13
MgO	4.24	3.65	2.15	1.52	0.03	2.09	0.41	1.39
CaO	8.17	7.91	4.14	4.70	0.23	4.39	0.92	4.17
Na2O	4.34	4.05	4.59	5.15	5.72	5.08	5.99	5.34
K2O	1.51	1.22	3.00	2.43	4.37	2.67	4.94	2.68
P2O5	0.34	0.19	0.36	0.43	0.03	0.54	0.07	0.55
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	1.04	1.10	1.07	0.83	0.19	1.15	0.60	1.31
CO2	0.05	0.02	0.00	0.21	0.26	0.23	1.35	0.43
Ba	0.	0.	0.	0.	0.	0.	780.	0.
Rb	0.	0.	0.	0.	0.	0.	65.	0.
Sr	0.	0.	0.	0.	0.	0.	83.	0.
Zn	0.	0.	0.	0.	0.	0.	83.	0.
Zr	0.	0.	0.	0.	0.	0.	470.	0.
Y	0.	0.	0.	0.	0.	0.	25.	0.
Li	0.	0.	0.	0.	0.	0.	25.	0.
Co	0.	0.	0.	0.	0.	0.	3.	0.
Cr	0.	0.	0.	0.	0.	0.	2.	0.
Cu	0.	0.	0.	0.	0.	0.	11.	0.
Ga	0.	0.	0.	0.	0.	0.	37.	0.
Ni	0.	0.	0.	0.	0.	0.	5.	0.
Sc	0.	0.	0.	0.	0.	0.	10.	0.
V	0.	0.	0.	0.	0.	0.	6.	0.
87Sr/86Sr	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7049	0.0000
FeOt	8.99	8.87	6.41	5.42	2.17	6.27	3.72	7.75
FeO*	8.91	8.75	6.29	5.37	2.14	6.10	3.64	7.52
Mg#	45.67	42.32	37.43	33.40	2.44	37.23	16.38	24.25
Density	2.59	2.58	2.47	2.47	2.32	2.48	2.36	2.50
%AN	41.61	46.82	31.59	32.00	0.00	27.74	0.23	25.14
Q	0.00	2.07	10.14	8.84	25.58	8.68	12.07	6.84
or	8.91	7.17	17.66	14.34	25.79	15.75	29.13	15.80
ab	36.59	34.21	38.71	43.46	41.59	42.84	50.61	45.06
an	26.08	30.12	17.88	20.45	0.00	16.44	0.12	15.13
C	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
di	9.85	6.33	0.22	0.00	0.85	1.39	3.35	1.59
hy	5.15	12.39	8.70	6.10	0.74	7.20	1.10	6.91
ol	4.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ac	0.00	0.00	0.00	0.00	4.82	0.00	0.00	0.00
mt	4.55	4.40	3.79	3.62	0.00	4.06	2.75	4.47
il	3.09	2.88	2.07	1.87	0.27	2.39	0.70	2.93
ap	0.79	0.44	0.82	1.00	0.07	1.26	0.17	1.26
NMS	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00

Sample	3732RSFd	3732SSFbe	3732TSFbe	3732USFbe	3732VSFbe	3732WSFbe	3732XSFbe	3732YSFmu
SiO2	55.35	59.67	59.76	60.23	60.03	60.65	60.35	53.79
TiO2	1.73	1.53	1.29	1.26	1.30	1.27	1.26	1.68
Al2O3	17.31	16.07	16.94	16.95	16.95	17.08	16.93	17.37
FeO	8.90	7.70	6.51	6.48	6.53	6.42	6.37	9.27
MnO	0.12	0.13	0.16	0.15	0.17	0.15	0.16	0.14
MgO	3.32	2.13	2.12	1.96	1.88	1.33	1.68	3.89
CaO	6.43	4.77	4.70	4.53	4.58	4.46	4.66	7.67
Na2O	4.39	4.89	5.45	5.43	5.49	5.50	5.49	4.21
K2O	2.05	2.67	2.54	2.52	2.54	2.64	2.55	1.60
P2O5	0.40	0.43	0.54	0.49	0.52	0.51	0.55	0.37
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	0.40	0.18	1.22	0.38	1.19	0.33	0.48	2.11
CO2	0.20	0.06	0.07	0.07	0.09	0.10	0.12	0.07
FeOt	8.90	7.70	6.51	6.48	6.53	6.42	6.37	9.27
FeO*	8.77	7.65	6.39	6.40	6.42	6.33	6.28	9.00
Mg#	39.94	33.07	36.72	35.07	33.95	26.94	32.03	42.76
Density	2.56	2.50	2.49	2.48	2.48	2.47	2.48	2.59
%AN	36.67	25.27	23.63	23.90	23.28	23.31	23.13	40.00
Q	3.47	7.61	5.51	7.32	6.88	8.07	7.46	1.57
or	12.08	15.73	14.96	14.84	14.98	15.54	15.05	9.41
ab	37.00	41.30	46.02	45.82	46.34	46.38	46.36	35.55
an	21.42	13.97	14.24	14.40	14.06	14.10	13.95	23.70
di	6.36	5.67	4.54	3.96	4.25	3.86	4.55	9.64
hy	10.78	8.31	8.11	6.12	5.73	4.46	4.97	11.44
mt	4.70	3.51	2.93	4.02	4.09	4.03	4.02	4.66
il	3.27	2.90	2.45	2.39	2.47	2.40	2.38	3.18
ap	0.91	1.00	1.25	1.12	1.20	1.17	1.26	0.86

Sample	3732ZSFmu	3733SFpr	3733ASFt	3733BSFt	3733CSFm	3733DSFg	3733ESFa	3734ASFr
SiO2	53.76	74.47	63.92	66.53	57.77	68.39	59.08	76.08
TiO2	1.74	0.09	0.97	0.51	1.65	0.38	1.28	0.15
Al2O3	16.87	12.90	17.60	16.45	16.74	15.12	17.18	13.13
FeO	9.67	2.43	4.45	4.04	7.88	3.55	6.95	1.36
MnO	0.15	0.00	0.07	0.08	0.13	0.14	0.11	0.00
MgO	3.98	0.11	1.12	0.69	2.97	0.36	2.79	0.10
CaO	7.24	0.12	3.57	2.43	5.74	1.19	6.10	0.58
Na2O	4.41	5.88	4.91	5.65	4.59	5.97	4.30	4.37
K2O	1.75	4.00	3.09	3.40	2.17	4.83	1.93	4.16
P2O5	0.43	0.00	0.29	0.22	0.36	0.07	0.27	0.05
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	0.27	0.26	0.89	1.30	0.76	0.44	1.00	0.00
CO2	0.06	0.00	0.36	0.46	0.20	0.18	0.27	0.00
Ba	860.	0.	0.	0.	0.	0.	0.	0.
Rb	9.	0.	0.	0.	0.	0.	0.	0.
Sr	830.	0.	0.	0.	0.	0.	0.	0.
Zn	105.	0.	0.	0.	0.	0.	0.	0.
Zr	169.	0.	0.	0.	0.	0.	0.	0.
Y	16.	0.	0.	0.	0.	0.	0.	0.
Li	12.	0.	0.	0.	0.	0.	0.	0.
Co	36.	0.	0.	0.	0.	0.	0.	0.
Cr	50.	0.	0.	0.	0.	0.	0.	0.
Cu	45.	0.	0.	0.	0.	0.	0.	0.
Ga	35.	0.	0.	0.	0.	0.	0.	0.
Ni	29.	0.	0.	0.	0.	0.	0.	0.
Sc	28.	0.	0.	0.	0.	0.	0.	0.
V	200.	0.	0.	0.	0.	0.	0.	0.
87Sr/86Sr	0.7031	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FeOt	9.67	2.43	4.45	4.04	7.88	3.55	6.95	1.36
FeO*	9.54	2.42	4.36	3.95	7.80	3.49	6.83	1.35
Mg#	42.35	7.50	31.04	23.48	40.20	15.18	41.70	11.67
Density	2.59	2.32	2.43	2.39	2.53	2.36	2.51	2.31
%AN	36.10	0.00	27.62	16.54	32.42	0.38	37.54	6.49
Q	0.55	25.31	14.71	14.25	6.74	12.74	9.64	33.40
or	10.32	23.57	18.24	20.06	12.79	28.49	11.39	24.56
ab	37.17	44.04	41.46	47.71	38.76	50.43	36.30	36.96
an	21.00	0.00	15.83	9.46	18.59	0.19	21.82	2.57
C	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.49
di	9.86	0.52	0.00	0.93	6.02	4.41	5.36	0.00
hy	12.10	1.67	3.29	3.47	8.59	0.11	8.64	0.25
ac	0.00	4.61	0.00	0.00	0.00	0.00	0.00	0.00
mt	4.71	0.00	3.62	2.63	4.57	2.76	3.79	0.00
il	3.30	0.17	1.84	0.97	3.12	0.71	2.43	0.00
hem	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51
ap	0.98	0.00	0.66	0.52	0.84	0.16	0.63	0.12
ru	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
NMS	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00

Sample	3819SFt	3819ASFt	3819BSFr	3831SFt	3831ASFmu	3832SFbe	3833SFmu	4723SFbe
SiO2	62.55	66.12	75.14	65.81	55.33	61.25	56.00	57.16
TiO2	0.85	0.56	0.08	0.52	1.73	1.14	1.71	1.46
Al2O3	17.52	16.58	13.32	17.36	17.60	17.35	17.14	17.72
FeO	5.59	4.77	1.03	4.20	8.83	5.63	8.75	8.03
MnO	0.00	0.00	0.00	0.10	0.13	0.11	0.13	0.16
MgO	1.52	0.84	1.00	0.66	3.64	2.12	3.68	2.46
CaO	3.31	2.54	0.11	1.92	6.54	4.64	6.34	5.04
Na2O	5.42	4.89	5.15	5.75	4.12	4.74	4.09	4.93
K2O	2.73	3.46	4.15	3.33	1.69	2.62	1.81	2.26
P2O5	0.51	0.24	0.03	0.35	0.39	0.39	0.36	0.79
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	0.00	0.00	0.00	0.58	0.76	0.57	0.00	0.00
CO2	0.00	0.00	0.00	0.02	0.30	0.05	0.00	0.00
Ba	0.	0.	0.	1700.	0.	0.	0.	0.
Rb	0.	0.	0.	33.	0.	0.	0.	0.
Sr	0.	0.	0.	720.	0.	0.	0.	0.
Zn	0.	0.	0.	80.	0.	0.	0.	0.
Zr	0.	0.	0.	435.	0.	0.	0.	0.
Y	0.	0.	0.	12.	0.	0.	0.	0.
Li	0.	0.	0.	19.	0.	0.	0.	0.
Co	0.	0.	0.	4.	0.	0.	0.	0.
Cr	0.	0.	0.	2.	0.	0.	0.	0.
Cu	0.	0.	0.	4.	0.	0.	0.	0.
Ga	0.	0.	0.	28.	0.	0.	0.	0.
Ni	0.	0.	0.	2.	0.	0.	0.	0.
Sc	0.	0.	0.	6.	0.	0.	0.	0.
V	0.	0.	0.	7.	0.	0.	0.	0.
87Sr/86Sr	0.0000	0.0000	0.0000	0.7031	0.0000	0.0000	0.0000	0.0000
FeOt	5.59	4.77	1.03	4.20	8.83	5.63	8.75	8.03
FeO*	5.53	4.54	1.03	4.16	8.70	5.58	8.57	7.87
Mg#	32.58	23.89	63.29	21.79	42.34	40.16	42.84	35.31
Density	2.45	2.41	2.31	2.40	2.57	2.47	2.56	2.53
%AN	22.29	21.03	0.80	12.89	41.29	31.35	40.04	31.92
Q	11.27	17.18	27.66	14.57	5.16	10.51	6.04	5.26
or	16.09	20.43	24.48	19.64	9.93	15.47	10.65	13.34
ab	45.73	41.31	43.49	48.58	34.78	40.04	34.46	41.56
an	13.11	11.00	0.35	7.19	24.46	18.28	23.02	19.48
C	0.84	0.74	0.24	1.65	0.00	0.00	0.00	0.00
di	0.00	0.00	0.00	0.00	4.37	1.74	4.90	0.27
hy	6.77	4.64	2.49	3.60	12.43	7.82	12.20	11.19
mt	3.42	3.08	0.00	2.95	4.70	3.07	4.68	4.32
il	1.61	1.05	0.00	0.99	3.27	2.16	3.23	2.76
hem	0.00	0.00	1.15	0.00	0.00	0.00	0.00	0.00
ap	1.17	0.56	0.07	0.82	0.89	0.91	0.83	1.81
ru	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00

Sample	4735SFla	4802SFbe	4818SFbe	5828BSFr	5828CSFr	DC03ASFpr	DC03BSFt	DC03CSFa
SiO2	62.11	55.88	56.97	75.28	75.53	74.52	64.27	60.93
TiO2	1.04	1.53	1.49	0.05	0.05	0.14	0.79	1.23
Al2O3	16.88	17.78	17.59	13.77	13.57	12.86	16.27	16.75
FeO	5.75	8.42	8.04	1.02	0.96	2.32	5.32	6.27
MnO	0.10	0.14	0.16	0.07	0.07	0.05	0.10	0.11
MgO	1.80	2.55	2.41	0.16	0.10	0.14	1.64	2.57
CaO	4.13	5.41	4.90	0.86	0.14	0.06	3.27	5.34
Na2O	4.79	5.11	5.20	4.48	5.51	5.52	5.12	4.21
K2O	3.03	2.25	2.40	4.27	4.05	4.35	2.87	2.26
P2O5	0.38	0.93	0.85	0.02	0.03	0.03	0.36	0.32
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	0.35	1.10	0.00	4.92	0.16	0.21	1.80	1.65
CO2	0.24	0.09	0.00	0.01	0.05	0.05	0.02	0.01
FeOt	5.75	8.42	8.04	1.02	0.96	2.32	5.32	6.27
FeO*	5.65	8.24	7.92	0.96	0.96	2.31	5.20	6.10
Mg#	35.86	35.11	34.80	21.86	15.72	9.75	35.43	42.23
Density	2.46	2.55	2.53	2.32	2.31	2.32	2.44	2.49
%AN	27.84	30.47	28.58	9.86	0.70	0.00	23.05	36.07
Q	11.48	2.62	3.79	30.45	27.63	26.04	13.63	13.01
or	17.83	13.24	14.11	25.23	23.90	25.66	16.90	13.32
ab	40.41	43.09	43.84	37.93	46.60	41.90	43.21	35.55
an	15.59	18.88	17.54	4.15	0.33	0.00	12.94	20.06
C	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
di	1.93	1.52	0.95	0.00	0.13	0.09	0.77	3.47
hy	6.21	11.17	10.61	1.16	0.19	1.53	7.27	7.50
ac	0.00	0.00	0.00	0.00	0.00	4.15	0.00	0.00
mt	3.71	4.43	4.36	0.68	1.02	0.31	2.96	4.01
il	1.97	2.90	2.83	0.10	0.10	0.27	1.49	2.34
hem	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
ap	0.87	2.15	1.97	0.05	0.07	0.07	0.83	0.74

Sample	DC04ASFmu	DC04BSFmu	DC04CSFbe	DC05SFt	DC07SFla	DC08SFbe	DC09SFbe	DC10SFbe
SiO2	56.62	52.96	61.41	62.86	61.41	61.07	60.75	61.26
TiO2	1.54	1.61	1.02	0.95	1.04	1.07	1.08	1.13
Al2O3	16.37	17.54	17.27	16.65	16.88	17.22	17.32	16.72
FeO	8.79	9.43	6.27	5.69	6.31	6.11	6.46	6.15
MnO	0.12	0.15	0.16	0.11	0.12	0.12	0.14	0.09
MgO	3.40	4.42	2.09	1.62	1.86	1.80	1.85	2.15
CaO	6.79	7.97	4.38	3.86	4.35	4.32	4.40	4.21
Na2O	4.32	4.08	4.78	5.08	4.76	5.19	4.89	5.23
K2O	1.65	1.47	2.17	2.74	2.80	2.62	2.63	2.57
P2O5	0.39	0.36	0.45	0.43	0.48	0.48	0.49	0.49
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	1.97	1.50	3.22	1.20	2.38	1.52	1.39	1.56
CO2	0.01	0.15	0.05	0.04	0.03	0.04	0.04	0.03
Ba	0.	0.	0.	880.	0.	0.	0.	0.
Rb	0.	0.	0.	40.	0.	0.	0.	0.
Sr	0.	0.	0.	640.	0.	0.	0.	0.
Zn	0.	0.	0.	85.	0.	0.	0.	0.
Zr	0.	0.	0.	295.	0.	0.	0.	0.
Y	0.	0.	0.	23.	0.	0.	0.	0.
Li	0.	0.	0.	12.	0.	0.	0.	0.
Co	0.	0.	0.	12.	0.	0.	0.	0.
Cr	0.	0.	0.	2.	0.	0.	0.	0.
Cu	0.	0.	0.	8.	0.	0.	0.	0.
Ga	0.	0.	0.	28.	0.	0.	0.	0.
Ni	0.	0.	0.	2.	0.	0.	0.	0.
Sc	0.	0.	0.	12.	0.	0.	0.	0.
V	0.	0.	0.	37.	0.	0.	0.	0.
87Sr/86Sr	0.0000	0.0000	0.0000	0.7034	0.0000	0.0000	0.0000	0.0000
FeOt	8.79	9.43	6.27	5.69	6.31	6.11	6.46	6.15
FeO*	8.54	9.24	6.07	5.60	6.09	5.96	6.34	5.99
Mg#	40.80	45.53	37.25	33.75	34.52	34.48	33.85	38.47
Density	2.56	2.60	2.48	2.45	2.47	2.47	2.48	2.47
%AN	35.79	42.16	31.72	25.30	28.94	26.67	29.84	24.76
Q	6.14	0.25	12.35	12.37	10.98	9.27	9.90	9.45
or	9.70	8.66	12.80	16.16	16.48	15.46	15.48	15.12
ab	36.47	34.45	40.32	42.86	40.20	43.76	41.24	44.16
an	20.33	25.11	18.73	14.52	16.38	15.91	17.54	14.53
C	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00
di	8.78	9.75	0.00	1.47	1.68	1.92	0.85	2.50
hy	10.28	13.34	8.92	6.24	7.48	6.77	8.05	7.11
mt	4.46	4.55	3.72	3.58	3.74	3.76	3.77	3.86
il	2.92	3.05	1.94	1.81	1.96	2.02	2.04	2.14
ap	0.90	0.83	1.05	0.99	1.10	1.11	1.13	1.14

Sample	DC11SFbe	DC12SFbe	DC13ASFbe	DC13BSFbe	DC14SFbe	DC15SFbe	DC16SFbe	DC17SFbe
SiO2	61.59	60.57	60.42	62.34	61.00	61.16	61.64	60.48
TiO2	1.02	1.10	1.12	1.10	1.14	1.13	1.02	1.13
Al2O3	16.60	17.28	17.03	16.21	17.03	16.80	16.66	17.02
FeO	6.14	6.49	6.72	6.14	6.44	6.35	6.29	6.71
MnO	0.11	0.13	0.14	0.11	0.07	0.12	0.09	0.14
MgO	1.84	1.58	1.87	1.90	1.65	1.95	1.74	1.93
CaO	4.20	4.54	4.37	4.10	4.54	4.30	4.19	4.56
Na2O	5.33	5.23	5.27	5.10	5.06	5.12	5.32	4.90
K2O	2.66	2.58	2.55	2.50	2.48	2.56	2.56	2.62
P2O5	0.49	0.51	0.51	0.48	0.59	0.50	0.49	0.51
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	1.26	1.12	0.92	0.94	1.28	1.20	0.86	1.59
CO2	0.01	0.06	0.04	0.02	0.03	0.01	0.01	0.04
FeOt	6.14	6.49	6.72	6.14	6.44	6.35	6.29	6.71
FeO*	5.99	6.34	6.60	6.14	6.24	6.20	6.15	6.55
Mg#	34.89	30.23	33.21	35.56	31.38	35.34	33.02	33.84
Density	2.47	2.48	2.48	2.47	2.48	2.48	2.47	2.49
%AN	23.06	26.61	25.54	24.40	27.77	26.08	23.81	28.77
Q	9.33	8.55	8.04	12.02	10.46	9.87	9.81	9.42
or	15.71	15.20	15.01	14.75	14.60	15.10	15.07	15.45
ab	44.98	44.14	44.46	43.07	42.68	43.23	44.87	41.31
an	13.48	16.01	15.25	13.90	16.41	15.25	14.02	16.68
di	3.37	2.60	2.52	2.67	1.83	2.27	2.90	2.08
hy	6.36	6.45	7.59	6.63	6.62	7.14	6.57	7.88
mt	3.71	3.80	3.83	3.76	3.88	3.85	3.70	3.85
il	1.94	2.07	2.12	2.09	2.15	2.13	1.94	2.13
ap	1.14	1.18	1.18	1.11	1.36	1.16	1.13	1.18

Sample	DC18SFbe	DC19SFbe	DC20SFbe	DC22SFbe	DC23SFbe	DC24SFbe	DC25ASFbe	DC25BSFbe
SiO2	60.57	60.80	60.19	61.22	61.08	60.74	61.19	60.98
TiO2	1.09	1.13	1.07	1.14	1.14	1.14	1.14	1.13
Al2O3	17.18	16.97	17.80	16.99	16.93	16.97	16.88	17.04
FeO	6.63	6.42	6.37	6.29	6.23	6.35	6.20	6.55
MnO	0.14	0.10	0.13	0.08	0.08	0.11	0.10	0.12
MgO	1.86	1.95	1.75	1.97	2.08	2.07	1.97	1.85
CaO	4.39	4.53	4.70	4.45	4.67	4.55	4.56	4.62
Na2O	5.15	5.25	5.20	4.97	4.88	5.07	5.07	4.83
K2O	2.49	2.37	2.29	2.38	2.39	2.48	2.38	2.36
P2O5	0.50	0.48	0.50	0.51	0.51	0.52	0.51	0.52
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	1.08	1.13	0.89	1.58	1.94	1.53	1.48	0.71
CO2	0.04	0.02	0.09	0.01	0.03	0.03	0.02	0.01
FeOt	6.63	6.42	6.37	6.29	6.23	6.35	6.20	6.55
FeO*	6.54	6.24	6.29	6.07	6.00	6.14	5.99	6.38
Mg#	33.39	35.19	32.89	35.82	37.28	36.74	36.13	33.47
Density	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48
%AN	27.35	26.22	29.56	28.78	29.43	27.42	27.45	30.44
Q	8.85	9.13	8.51	11.06	11.02	9.47	10.55	11.30
or	14.69	13.95	13.48	14.04	14.08	14.64	14.04	13.92
ab	43.45	44.28	43.91	41.96	41.20	42.79	42.82	40.72
an	16.36	15.74	18.43	16.95	17.18	16.17	16.20	17.82
di	1.75	2.87	1.30	1.45	2.14	2.44	2.47	1.34
hy	7.91	6.92	7.45	7.31	7.13	7.27	6.70	7.70
mt	3.78	3.87	3.75	3.89	3.91	3.89	3.89	3.86
il	2.07	2.14	2.03	2.16	2.16	2.16	2.16	2.14
ap	1.15	1.12	1.15	1.17	1.18	1.20	1.17	1.21

Sample	DC26SFbe	DC30SFbe	DC32SFbe	DC35SFbe	DC36SFbe	DC38SFbe	DC40SFbe	DC42SFbe
SiO2	60.92	60.63	60.94	60.93	61.00	60.87	60.72	60.90
TiO2	1.13	1.13	1.15	1.14	1.14	1.14	1.14	1.04
Al2O3	16.92	17.03	17.09	17.20	17.12	17.29	17.48	17.46
FeO	6.36	6.45	6.35	6.37	6.11	6.15	5.83	5.97
MnO	0.11	0.10	0.10	0.10	0.08	0.11	0.08	0.11
MgO	1.74	1.95	1.88	1.97	1.87	1.97	1.97	1.77
CaO	4.61	4.62	4.69	4.66	4.88	4.87	4.86	4.88
Na2O	5.13	5.23	4.90	4.97	5.08	4.97	5.07	4.88
K2O	2.56	2.36	2.40	2.18	2.28	2.17	2.38	2.49
P2O5	0.51	0.50	0.51	0.48	0.45	0.47	0.47	0.49
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	0.70	1.03	2.26	1.65	1.61	1.32	1.91	1.87
CO2	0.02	0.01	0.02	0.02	0.01	0.02	0.02	0.01
Ba	0.	0.	880.	0.	880.	0.	0.	0.
Rb	0.	0.	39.	0.	24.	0.	0.	0.
Sr	0.	0.	750.	0.	800.	0.	0.	0.
Zn	0.	0.	101.	0.	95.	0.	0.	0.
Zr	0.	0.	265.	0.	255.	0.	0.	0.
Y	0.	0.	19.	0.	16.	0.	0.	0.
Li	0.	0.	17.	0.	19.	0.	0.	0.
Co	0.	0.	14.	0.	13.	0.	0.	0.
Cr	0.	0.	2.	0.	2.	0.	0.	0.
Cu	0.	0.	13.	0.	9.	0.	0.	0.
Ga	0.	0.	29.	0.	26.	0.	0.	0.
Ni	0.	0.	5.	0.	4.	0.	0.	0.
Sc	0.	0.	14.	0.	12.	0.	0.	0.
V	0.	0.	46.	0.	45.	0.	0.	0.
87Sr/86Sr	0.0000	0.0000	0.7034	0.0000	0.7035	0.0000	0.0000	0.0000
FeOt	6.36	6.45	6.35	6.37	6.11	6.15	5.83	5.97
FeO*	6.20	6.29	6.10	6.15	5.89	5.94	5.64	5.75
Mg#	32.84	35.01	34.48	35.52	35.27	36.32	37.53	34.52
Density	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48
%AN	26.43	26.56	29.77	30.17	28.51	30.50	29.47	30.75
Q	9.51	8.92	10.89	10.94	10.31	10.80	9.70	10.39
or	15.11	13.91	14.12	12.82	13.45	12.81	14.02	14.70
ab	43.27	44.15	41.32	41.97	42.90	41.93	42.78	41.22
an	15.54	15.97	17.52	18.13	17.10	18.40	17.88	18.30
di	3.24	2.94	1.92	1.50	3.35	2.15	2.54	2.19
hy	6.14	6.95	6.96	7.48	5.80	6.78	5.97	6.34
mt	3.86	3.86	3.92	3.90	3.90	3.89	3.89	3.76
il	2.14	2.14	2.17	2.16	2.16	2.16	2.16	1.97
ap	1.18	1.16	1.18	1.10	1.03	1.08	1.08	1.13

Sample	DC43SFbe	DC47SFbe	DC49SFbe	DC57SFbe	DC58SFt	DC65SFbe	3604KPr	3616AHHr
SiO2	61.69	61.34	61.77	59.98	64.67	57.33	74.08	72.94
TiO2	1.00	1.00	0.96	1.02	0.76	1.48	0.08	0.07
Al2O3	17.18	17.19	17.40	18.39	16.26	17.73	14.53	15.09
FeO	5.60	5.65	5.37	5.60	5.14	7.46	1.38	1.62
MnO	0.10	0.09	0.10	0.12	0.13	0.14	0.00	0.05
MgO	1.76	1.65	1.54	1.58	1.08	2.39	0.11	0.03
CaO	4.86	5.04	4.74	5.10	2.99	5.91	1.06	0.33
Na2O	5.07	5.25	5.35	5.46	5.64	4.90	4.58	5.27
K2O	2.28	2.37	2.37	2.33	3.04	2.02	4.13	4.56
P2O5	0.46	0.43	0.39	0.41	0.29	0.65	0.05	0.03
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
LOI	1.47	1.24	1.01	0.60	0.46	0.04	0.00	0.56
CO2	0.01	0.01	0.03	0.03	0.07	0.02	0.00	0.01
Ba	0.	0.	0.	920.	980.	900.	0.	0.
Rb	0.	0.	0.	33.	38.	32.	0.	0.
Sr	0.	0.	0.	820.	510.	820.	0.	0.
Zn	0.	0.	0.	81.	83.	96.	0.	0.
Zr	0.	0.	0.	255.	300.	193.	0.	0.
Y	0.	0.	0.	16.	19.	20.	0.	0.
Li	0.	0.	0.	18.	35.	23.	0.	0.
Co	0.	0.	0.	14.	7.	21.	0.	0.
Cr	0.	0.	0.	6.	2.	2.	0.	0.
Cu	0.	0.	0.	19.	7.	31.	0.	0.
Ga	0.	0.	0.	38.	34.	38.	0.	0.
Ni	0.	0.	0.	7.	7.	6.	0.	0.
Sc	0.	0.	0.	13.	10.	18.	0.	0.
V	0.	0.	0.	48.	23.	75.	0.	0.
87Sr/86Sr	0.0000	0.0000	0.0000	0.7033	0.7034	0.7038	0.0000	0.0000
FeOt	5.60	5.65	5.37	5.60	5.14	7.46	1.38	1.62
FeO*	5.41	5.49	5.22	5.54	5.10	7.44	1.34	1.60
Mg#	35.91	34.20	33.88	33.43	27.24	36.33	12.76	3.24
Density	2.47	2.47	2.46	2.47	2.42	2.53	2.32	2.32
%AN	28.84	26.90	26.64	28.87	17.46	33.04	11.25	3.17
Q	11.36	9.76	10.13	6.83	11.66	4.67	29.31	24.14
or	13.42	13.95	13.96	13.72	17.96	11.90	24.40	26.90
ab	42.80	44.30	45.19	46.12	47.61	41.36	38.66	44.51
an	17.35	16.31	16.41	18.72	10.07	20.41	4.90	1.46
C	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.96
di	3.05	4.76	3.64	3.11	2.40	3.83	0.00	0.00
hy	5.36	4.36	4.34	4.93	5.80	10.72	0.28	0.08
mt	3.70	3.68	3.62	3.67	2.39	2.82	0.00	0.57
il	1.90	1.89	1.81	1.94	1.43	2.80	0.00	0.13
hem	0.00	0.00	0.00	0.00	0.00	0.00	1.53	1.20
ap	1.05	1.00	0.90	0.96	0.68	1.51	0.12	0.07
ru	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00