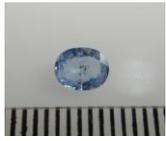
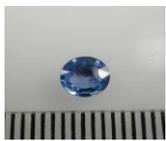
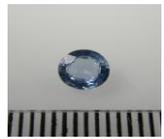
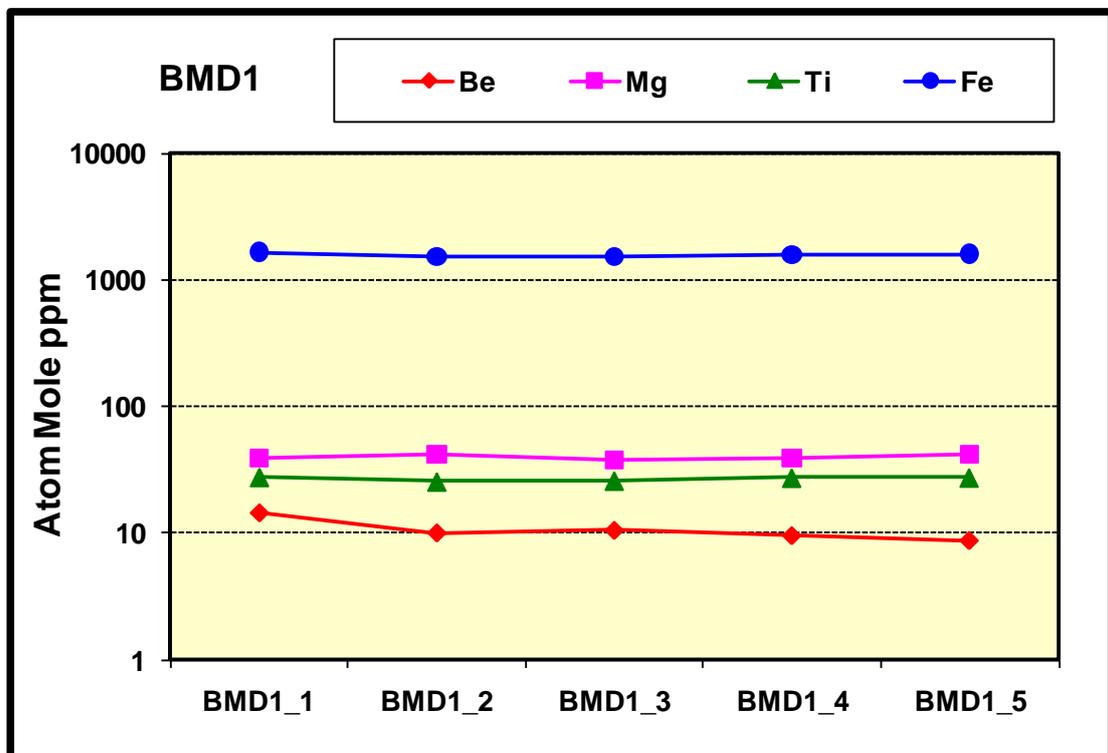
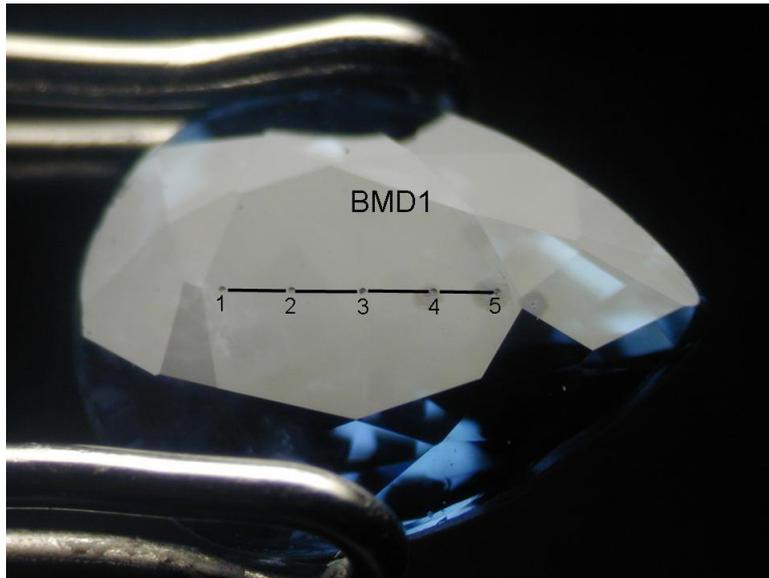


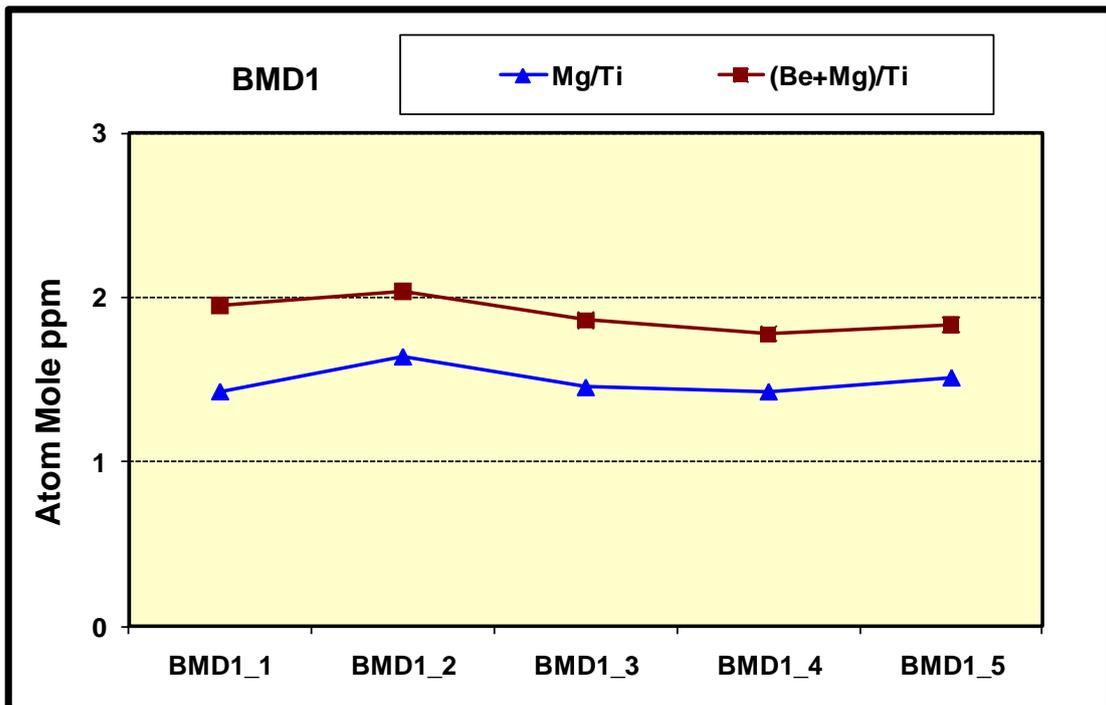
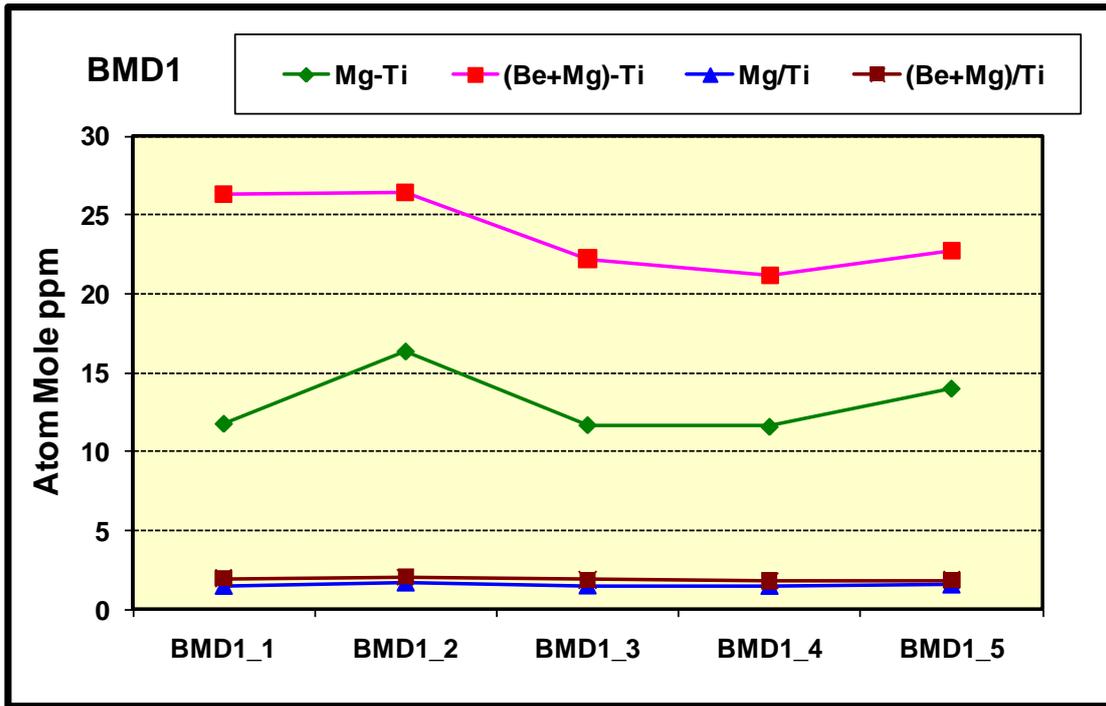
ภาคผนวก ง: ผลวิเคราะห์ธาตุร่องรอยชุดตัวอย่าง **BMD**

(RI = refractive indices, SG = specific gravity, SWUV = short wave ultraviolet,
LWUV = long wave ultraviolet)

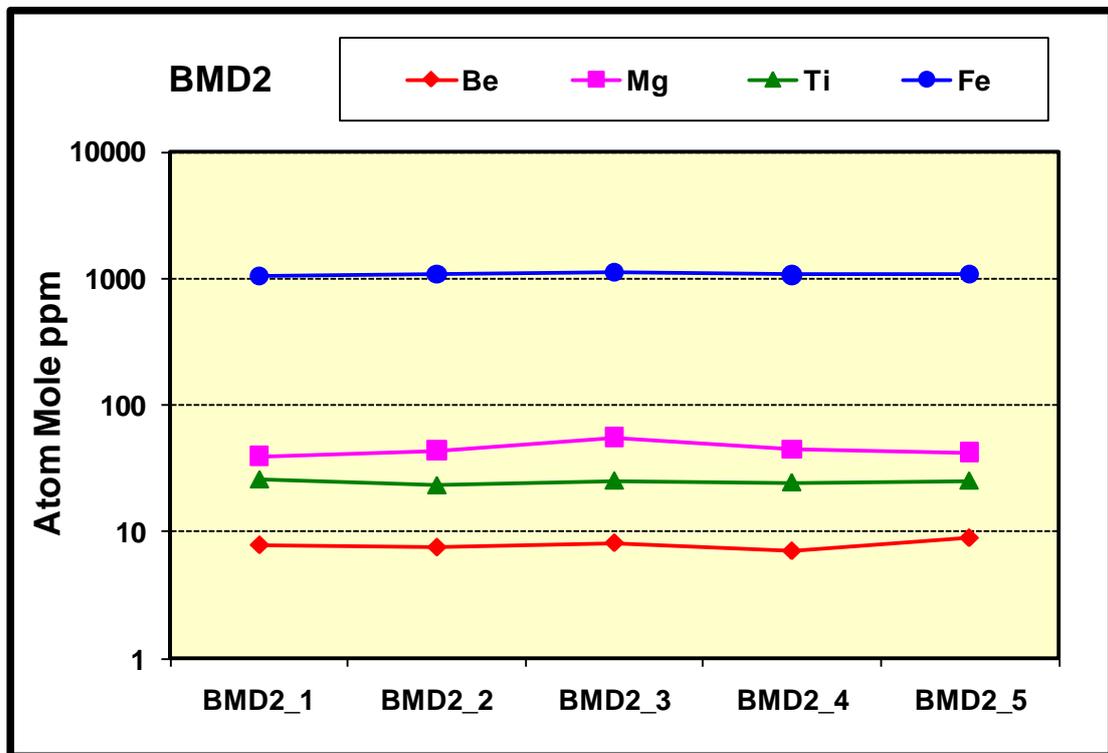
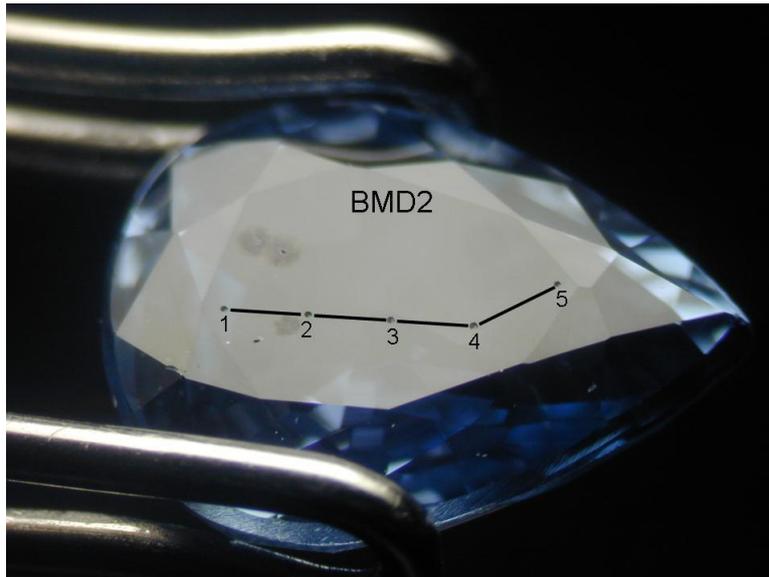
Sample no.	Weight (ct)	RI		Color	SG	Luminescence		Picture
		Min	Max			SW UV	LW UV	
1.BMD1	0.707	1.765	1.772	Blue	4.035	Inert	Inert	
2.BMD2	0.639	1.760	1.768	Blue	4.404	Inert	Inert	
3.BMD3	0.583	1.760	1.768	Blue	4.013	Inert	Inert	
4.BMD4	0.392	1.760	1.768	Blue	4.037	Inert	Inert	
5.BMD5	0.424	1.760	1.768	Blue	4.078	Inert	Inert	
6.BMD6	0.527	1.762	1.768	Blue	4.043	Inert	Inert	
7.BMD7	0.597	1.760	1.768	Blue	3.969	Inert	Inert	
8.BMD8	0.518	1.760	1.768	Blue	3.967	Inert	Inert	
9.BMD9	0.657	1.760	1.768	Blue	3.984	Inert	Inert	

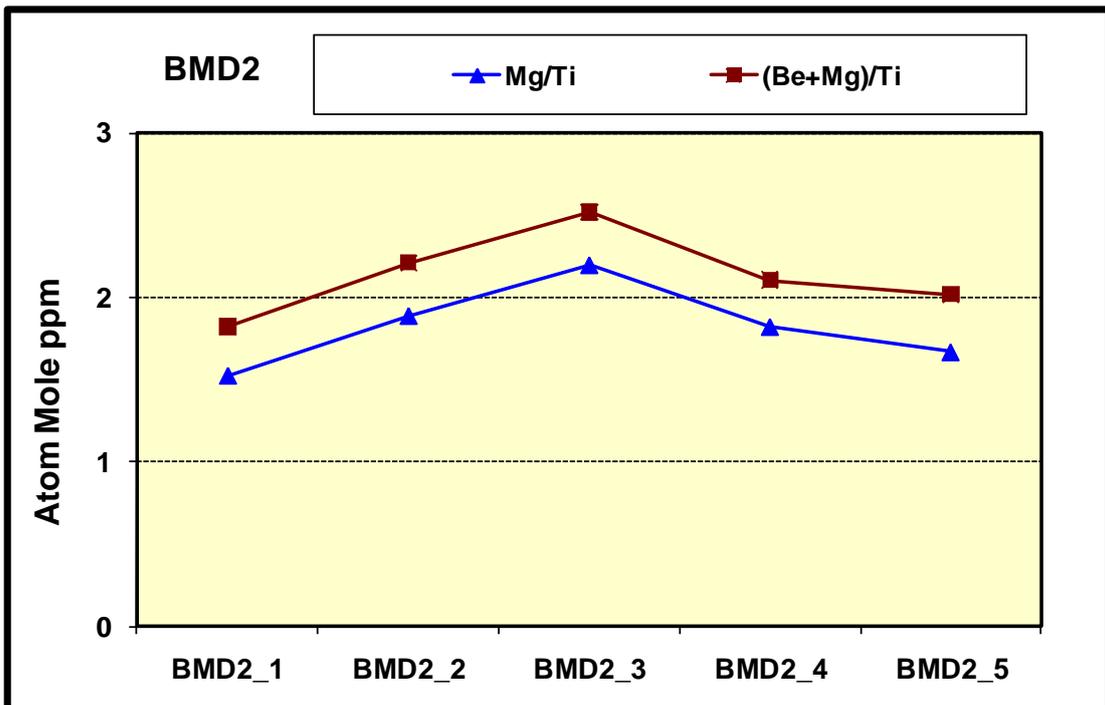
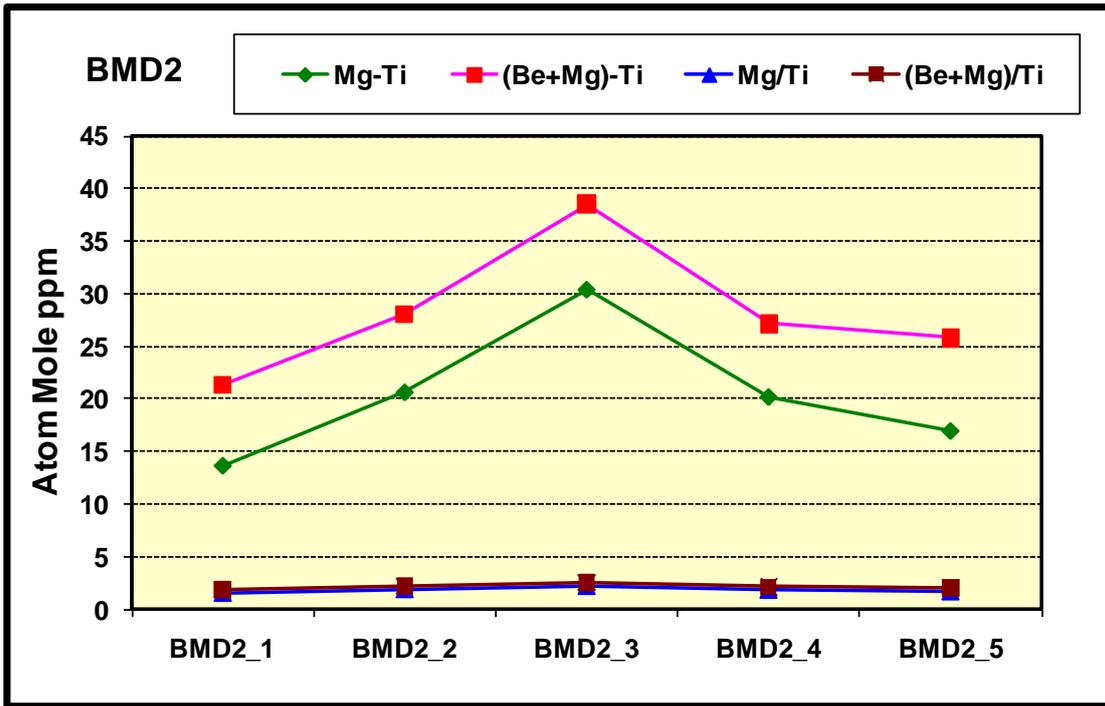
Sample no.	Weight (ct)	RI		Color	SG	Luminescence		Picture
		Min	Max			SW UV	LW UV	
10.BMD10	0.543	1.760	1.768	Blue	3.928	Inert	Inert	
11.BMD11	0.440	1.760	1.770	Blue	3.867	Inert	Inert	
12.BMD12	0.698	1.760	1.768	Blue	3.986	Inert	Inert	
13.BMD13	0.667	1.760	1.768	Blue	4.028	Inert	Inert	
14.BMD14	0.474	1.760	1.768	Blue	3.896	Inert	Inert	
15.BMD15	0.411	1.760	1.768	Blue	4.065	Inert	Inert	



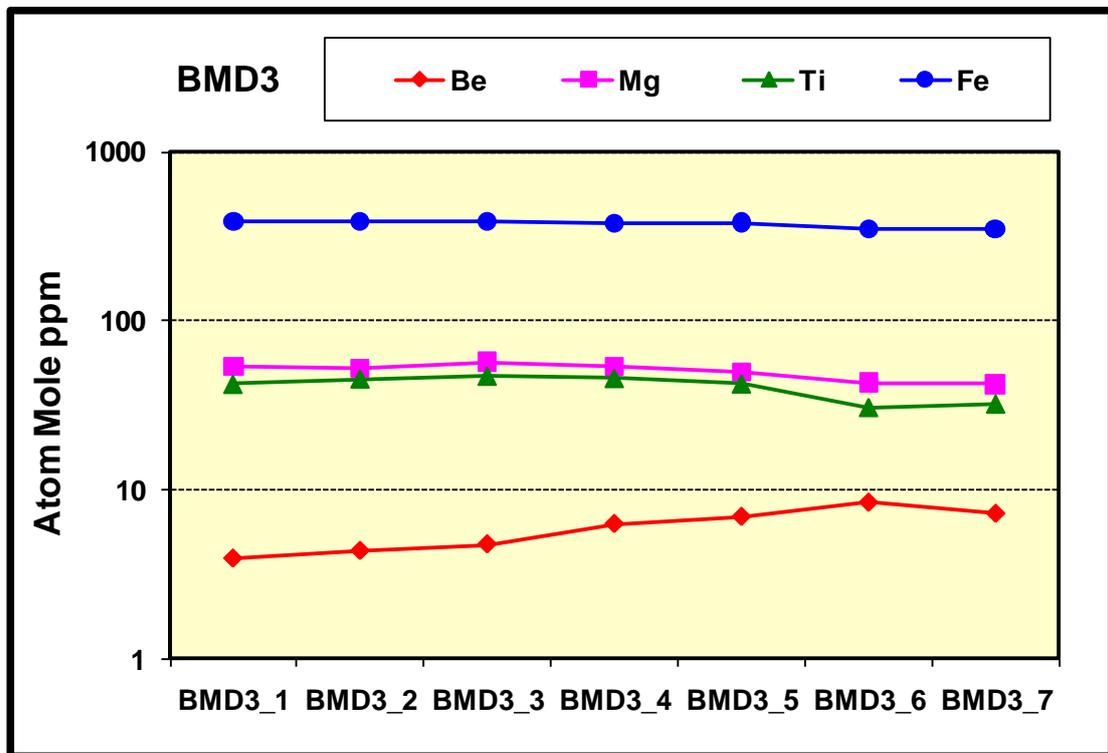
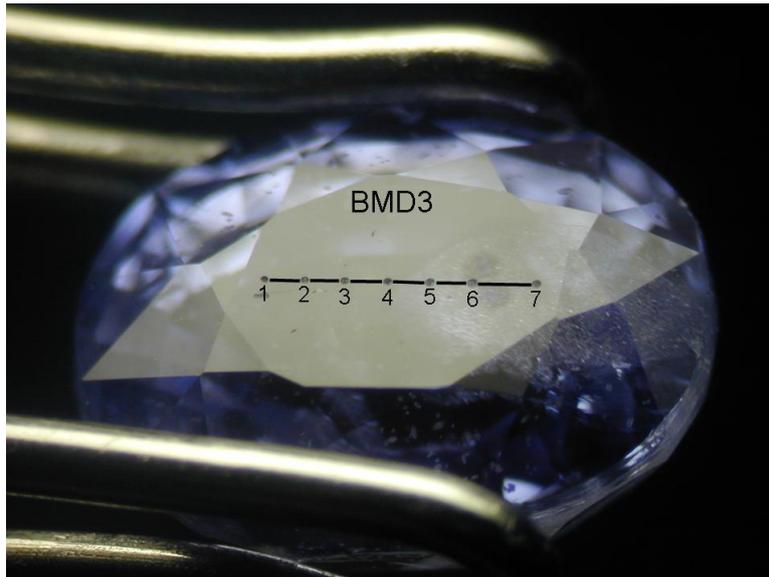


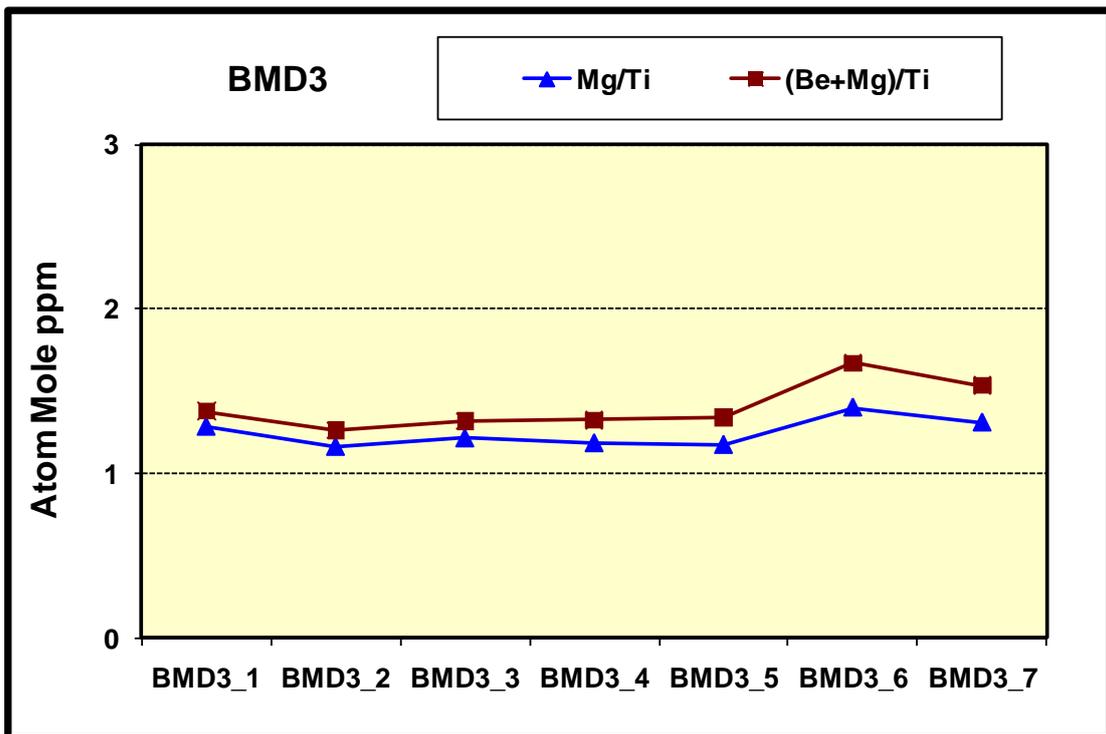
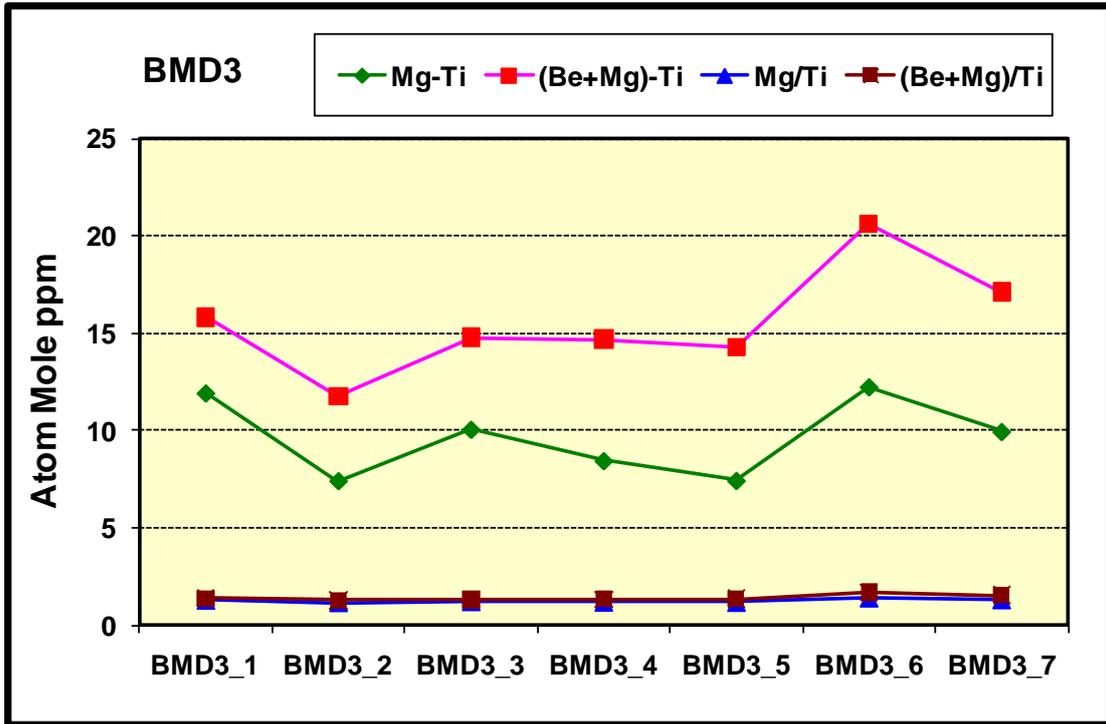
BMD1	BMD1_1	BMD1_2	BMD1_3	BMD1_4	BMD1_5
Cations (ppm by weight)					
Be	6.44	4.46	4.67	4.24	3.88
Na	<3.43	<3.20	<2.96	<2.93	<3.30
Mg	47.18	50.06	44.95	46.47	49.51
Al	529197.44	529197.44	529197.44	529197.44	529197.44
Ti	65.18	60.06	61.00	64.24	64.52
V	12.09	11.57	12.49	12.56	12.31
Cr	138.11	124.12	123.65	121.46	124.48
Mn	<0.32	<0.29	<0.26	<0.26	<0.28
Fe	4557.53	4213.71	4203.85	4294.13	4384.49
Ga	99.51	95.33	92.81	94.27	98.83
Total %	53.41	53.38	53.37	53.38	53.39
Cations (Atom Mole ppm)					
Be	14.51	10.05	10.52	9.55	8.74
Na	0.00	0.00	0.00	0.00	0.00
Mg	39.41	41.83	37.56	38.82	41.36
Al	398174.21	398309.71	398317.21	398283.26	398246.32
Ti	27.62	25.46	25.86	27.23	27.35
V	4.82	4.61	4.98	5.01	4.91
Cr	53.92	48.47	48.29	47.43	48.61
Mn	0.00	0.00	0.00	0.00	0.00
Fe	1656.55	1532.10	1528.54	1561.23	1593.94
Ga	37.66	40.52	35.73	37.37	37.19
Total (Atom Mole %)	40.00	40.00	40.00	40.00	40.00
Mg-Ti	11.78	16.36	11.70	11.59	14.01
Be-Ti	-13.12	-15.41	-15.34	-17.68	-18.61
(Be+Mg)-Ti	26.29	26.41	22.22	21.14	22.75
(Be+Mg)%	3.10	3.22	3.00	2.96	3.00
Ti%	1.59	1.58	1.61	1.66	1.64
Fe%	95.31	95.19	95.39	95.38	95.37
Mg/Ti	1.43	1.64	1.45	1.43	1.51
(Be+Mg)/Ti	1.95	2.04	1.86	1.78	1.83



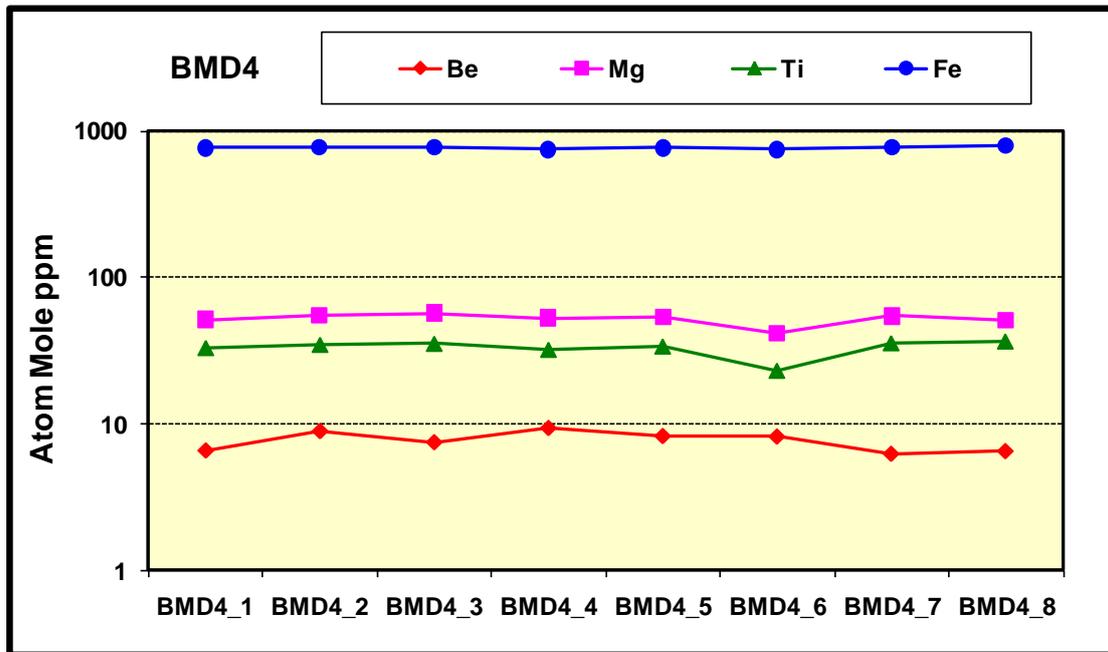
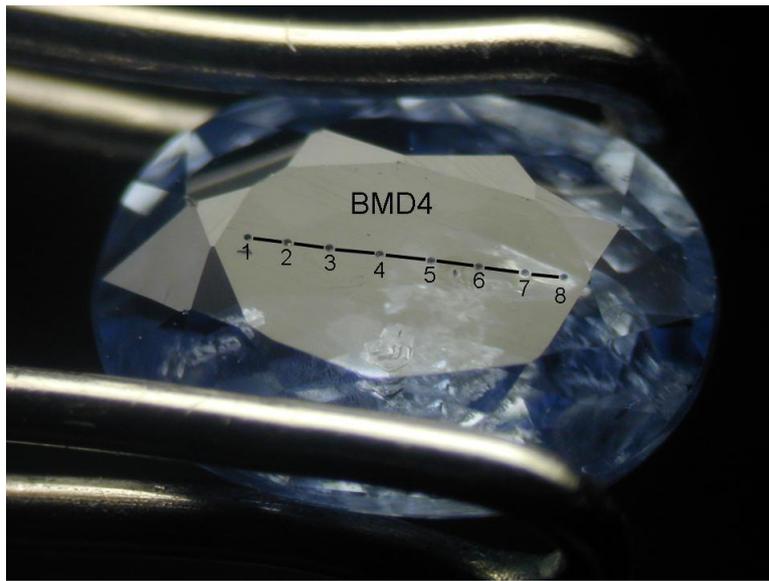


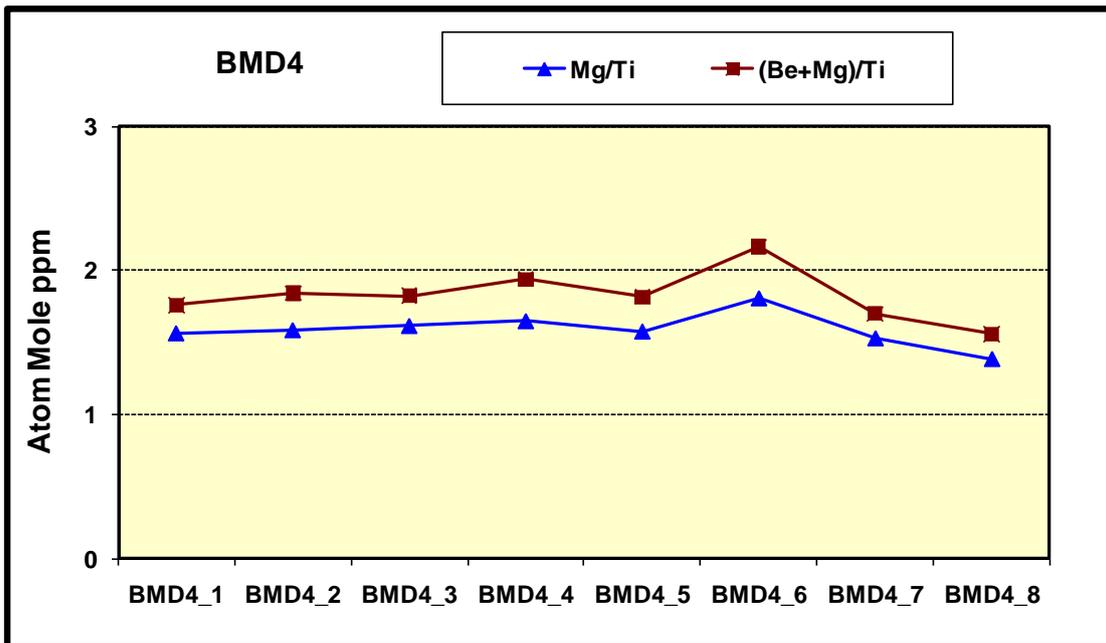
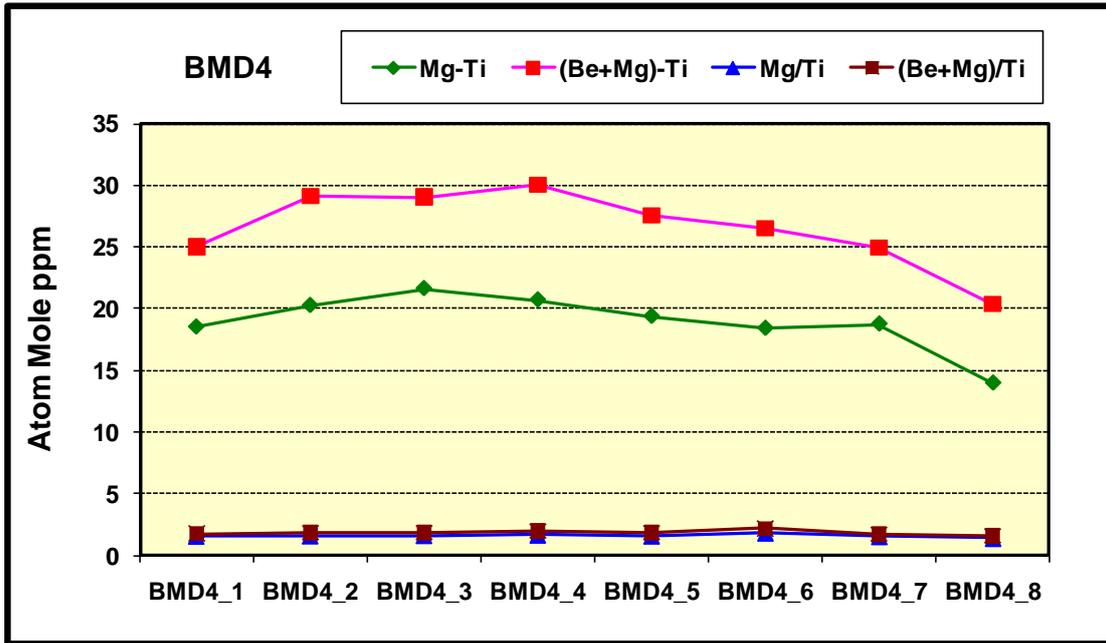
BMD2	BMD2_1	BMD2_2	BMD2_3	BMD2_4	BMD2_5
Cations (ppm by weight)					
Be	3.45	3.31	3.59	3.09	3.94
Na	<2.94	<3.41	<3.53	<2.98	<4.19
Mg	47.27	52.36	66.73	53.45	50.54
Al	529197.44	529197.44	529197.44	529197.44	529197.44
Ti	61.16	54.65	59.82	57.85	59.78
V	5.87	6.22	6.44	6.00	6.13
Cr	26.31	25.50	29.60	26.04	26.80
Mn	<0.25	<0.28	<0.28	<0.232	<0.32
Fe	2852.22	2955.14	3088.74	2921.06	2987.71
Ga	82.82	85.94	85.86	75.27	90.07
Total %	53.11	53.13	53.14	53.14	53.15
Cations (Atom Mole ppm)					
Be	7.78	7.47	8.10	6.97	8.89
Na	0.00	0.00	0.00	0.00	0.00
Mg	39.55	43.80	55.81	44.72	42.28
Al	398851.44	398812.18	398747.23	398825.76	398796.61
Ti	25.96	23.20	25.39	24.56	25.37
V	2.34	2.48	2.57	2.39	2.45
Cr	10.29	9.97	11.57	10.18	10.48
Mn	0.00	0.00	0.00	0.00	0.00
Fe	1038.47	1075.84	1124.29	1063.47	1087.65
Ga	37.66	40.52	35.73	37.37	37.19
Total (Atom Mole %)	40.00	40.00	40.00	40.00	40.00
Mg-Ti	13.58	20.60	30.43	20.16	16.90
Be-Ti	-18.18	-15.73	-17.29	-17.59	-16.49
(Be+Mg)-Ti	21.37	28.07	38.52	27.13	25.79
(Be+Mg)%	4.26	4.46	5.27	4.54	4.40
Ti%	2.34	2.02	2.09	2.15	2.18
Fe%	93.41	93.53	92.64	93.31	93.43
Mg/Ti	1.52	1.89	2.20	1.82	1.67
(Be+Mg)/Ti	1.82	2.21	2.52	2.10	2.02



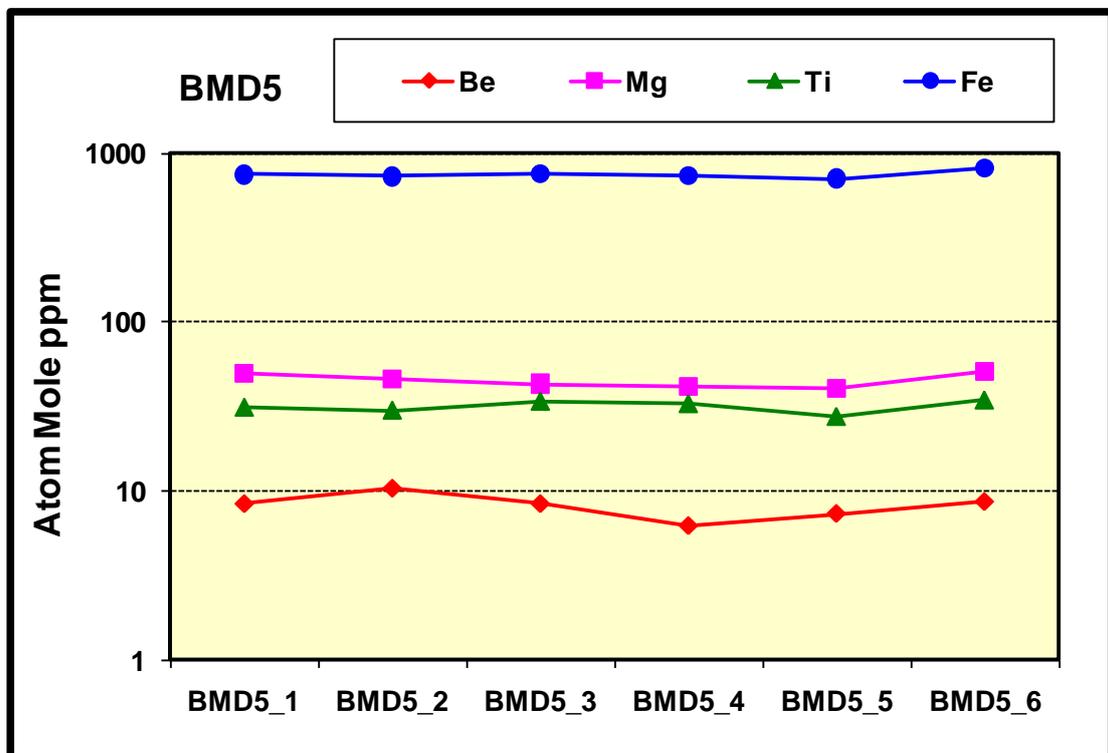
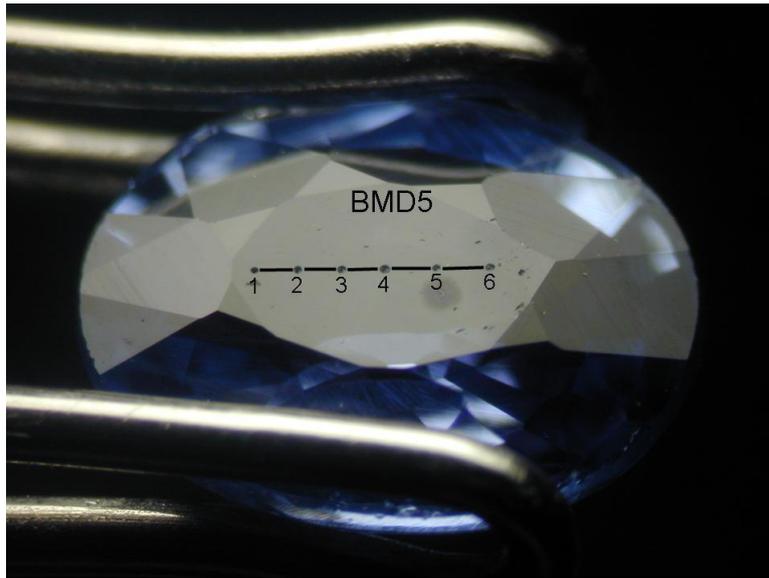


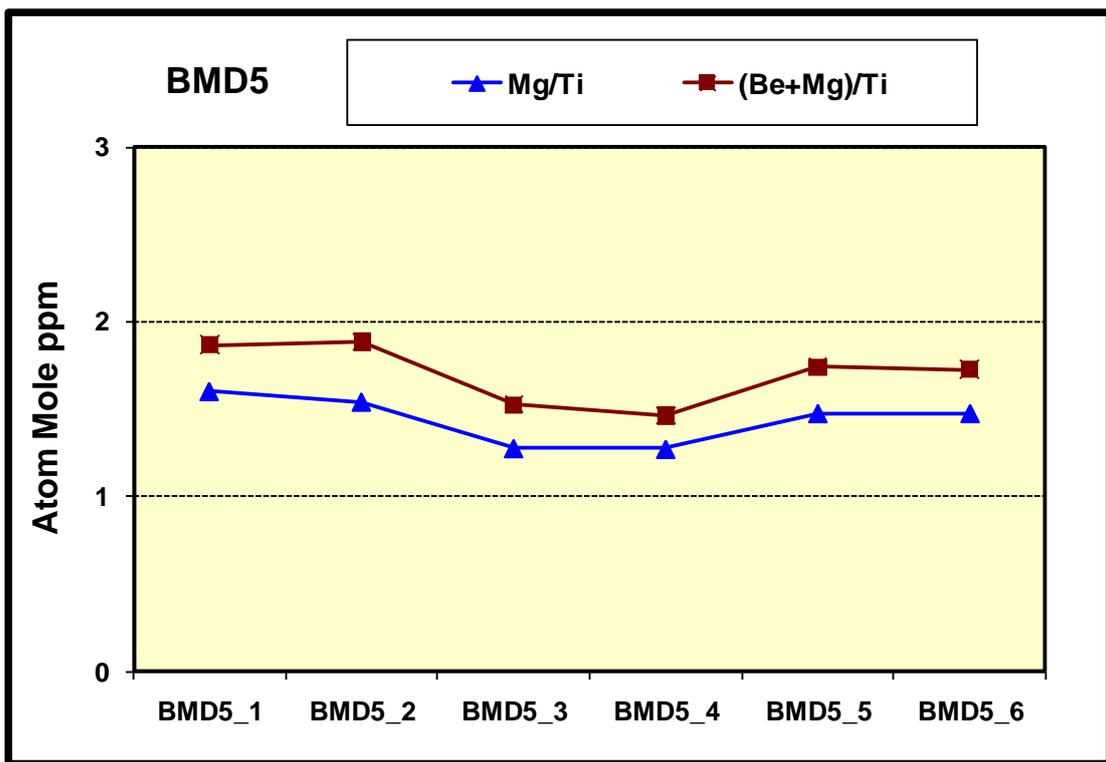
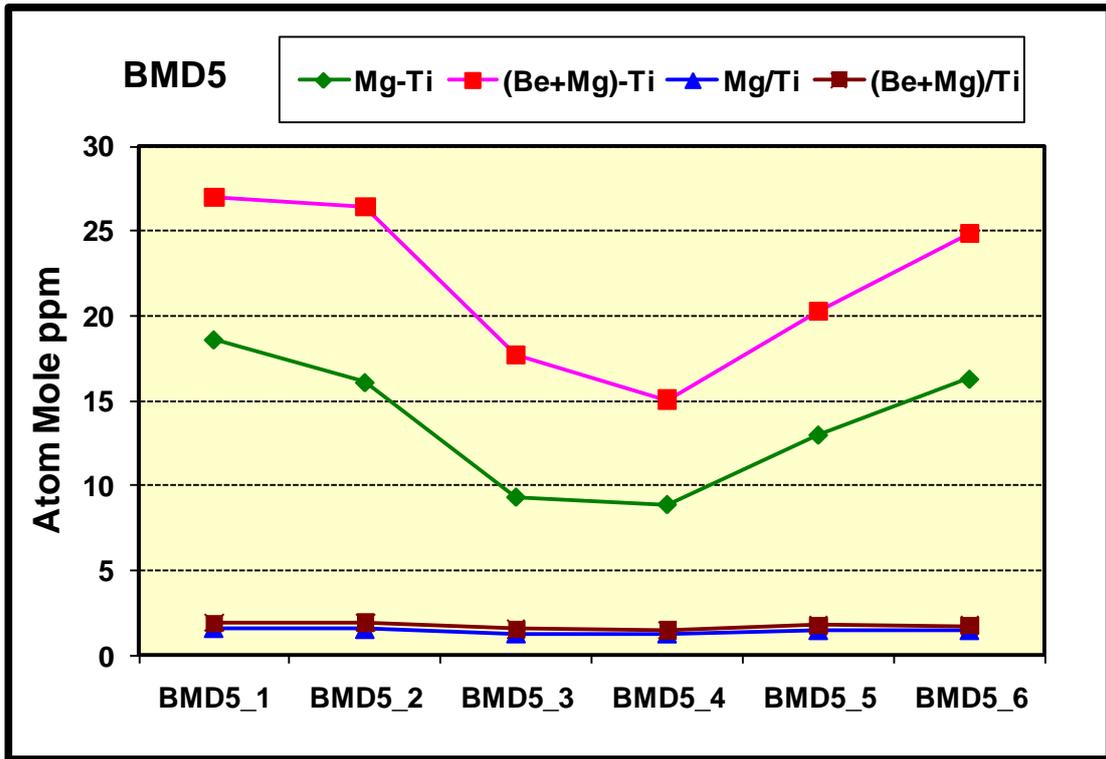
BMD3	BMD3_1	BMD3_2	BMD3_3	BMD3_4	BMD3_5	BMD3_6	BMD3_7
Cations (ppm by weight)							
Be	1.72	1.91	2.09	2.76	3.04	3.69	3.17
Na	<5.19	<4.48	<4.37	<4.15	<4.08	<3.51	<3.97
Mg	64.39	62.77	67.97	64.37	59.26	51.31	50.26
Al	529197.63	529197.56	529197.63	529197.63	529197.63	529197.56	529197.63
Ti	98.84	106.27	110.30	107.00	99.33	72.32	75.67
V	20.78	19.04	20.71	20.02	19.41	18.03	17.96
Cr	125.58	114.89	121.94	112.03	111.68	104.50	106.09
Mn	<0.37	<0.32	<0.31	<0.29	<0.28	<0.24	<0.27
Fe	1059.67	1051.84	1063.46	1042.15	1042.70	957.51	952.54
Ga	93.71	91.27	94.51	89.92	92.00	86.16	83.52
Total %	53.04	53.04	53.04	53.04	53.04	53.03	53.03
Cations (Atom Mole ppm)							
Be	3.89	4.32	4.72	6.24	6.87	8.34	7.16
Na	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mg	53.95	52.59	56.95	53.93	49.65	43.00	42.12
Al	399428.91	399435.12	399420.05	399436.20	399442.67	399495.41	399498.03
Ti	42.02	45.18	46.89	45.49	42.23	30.75	32.18
V	8.31	7.61	8.28	8.00	7.76	7.21	7.18
Cr	49.18	45.00	47.76	43.88	43.74	40.93	41.56
Mn	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe	386.38	383.53	387.75	380.00	380.20	349.19	347.38
Ga	37.66	40.52	35.73	37.37	37.19	37.19	37.19
Total (Atom Mole %)	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Mg-Ti	11.93	7.41	10.06	8.44	7.42	12.25	9.94
Be-Ti	-38.13	-40.86	-42.17	-39.25	-35.36	-22.41	-25.01
(Be+Mg)-Ti	15.82	11.73	14.78	14.68	14.29	20.59	17.11
(Be+Mg)%	11.89	11.72	12.43	12.39	11.80	11.90	11.49
Ti%	8.64	9.30	9.45	9.37	8.82	7.13	7.50
Fe%	79.46	78.98	78.13	78.24	79.38	80.97	81.00
Mg/Ti	1.28	1.16	1.21	1.19	1.18	1.40	1.31
(Be+Mg)/Ti	1.38	1.26	1.32	1.32	1.34	1.67	1.53



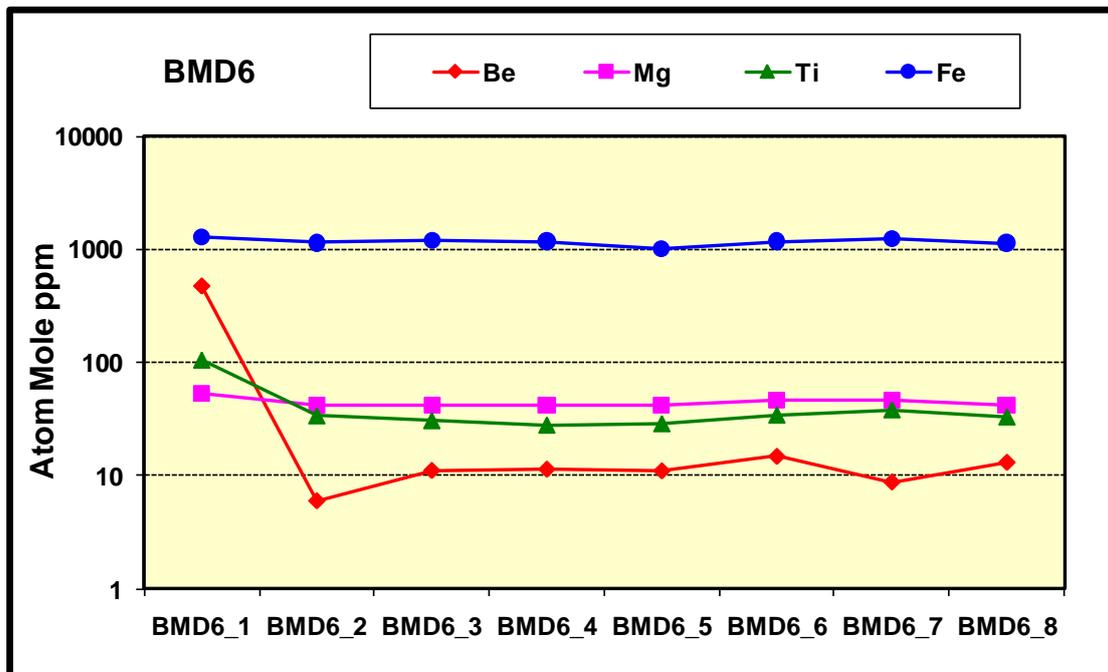
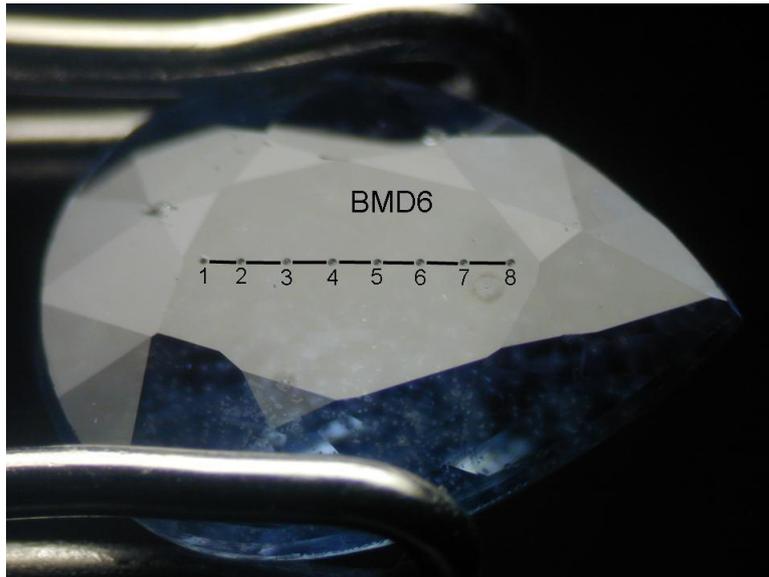


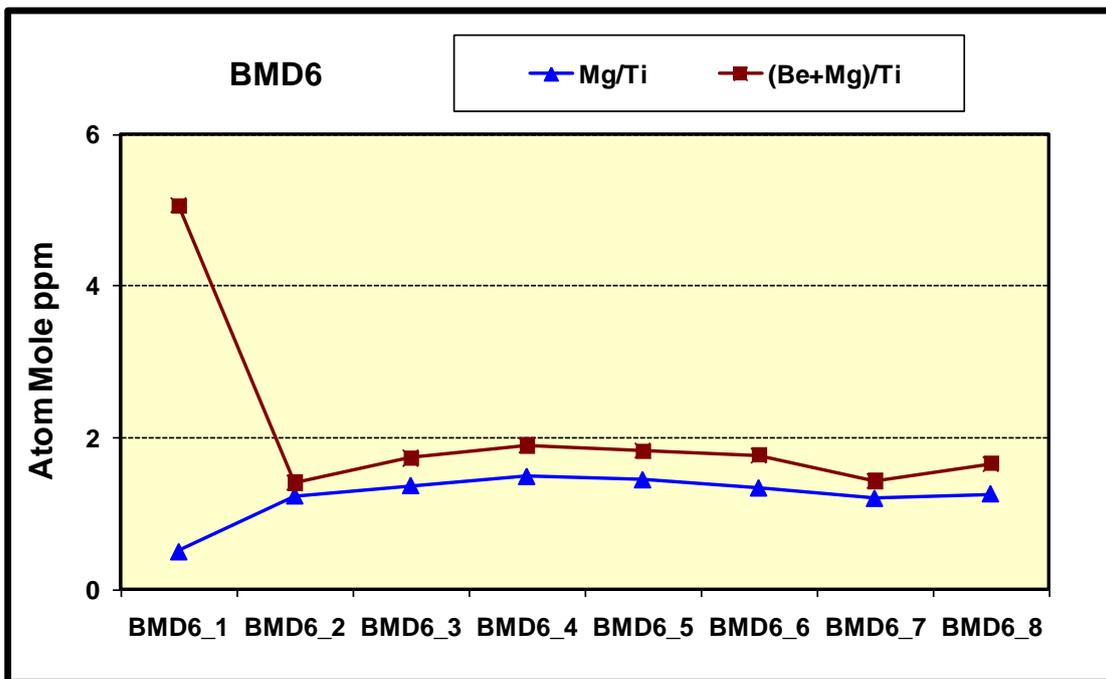
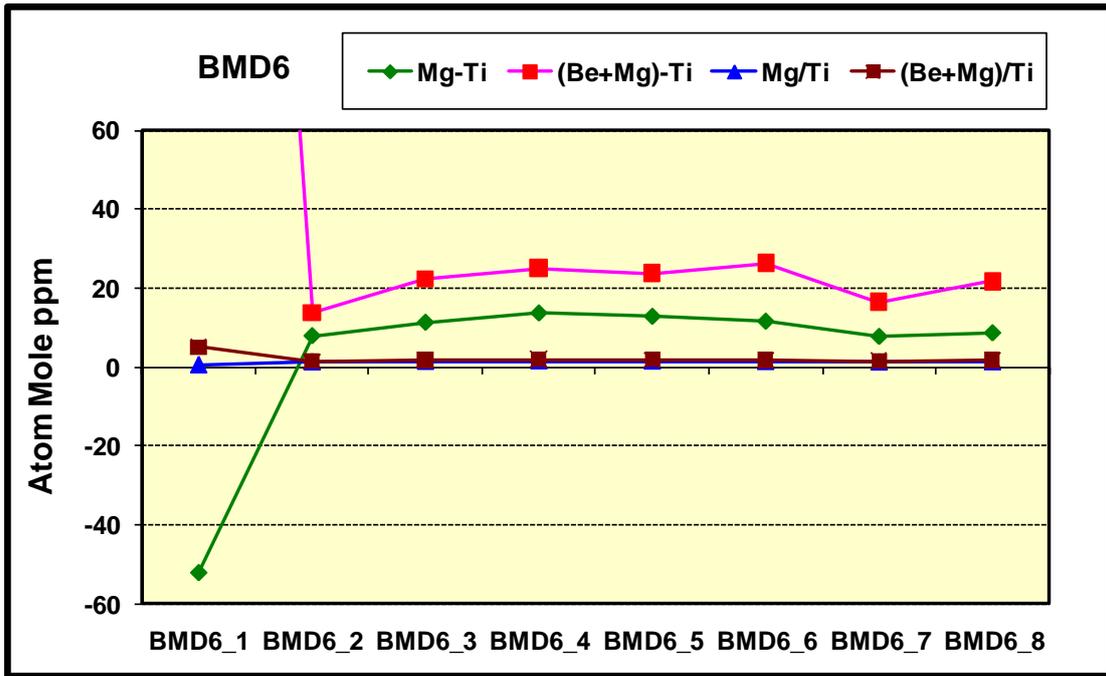
BMD4	BMD4_1	BMD4_2	BMD4_3	BMD4_4	BMD4_5	BMD4_6	BMD4_7	BMD4_8
Cations (ppm by weight)								
Be	2.89	3.94	3.30	4.14	3.64	3.61	2.74	2.86
Na	<5.72	<4.55	<4.98	<4.92	<5.04	<4.93	<5.03	<4.77
Mg	61.49	65.66	67.98	62.97	63.51	49.20	64.99	60.50
Al	529197.56	529197.56	529197.56	529197.50	529197.50	529197.44	529197.50	529197.50
Ti	77.66	81.77	83.12	75.41	79.61	53.69	83.98	86.40
V	4.85	6.22	6.32	5.56	5.91	5.90	5.99	6.11
Cr	17.03	15.93	16.70	17.70	18.64	18.67	18.25	17.76
Mn	<0.36	<0.29	<0.32	<0.31	<0.32	<0.31	<0.32	<0.30
Fe	2103.13	2138.12	2131.09	2047.72	2104.57	2043.74	2127.36	2193.32
Ga	98.01	99.64	97.75	95.72	94.03	96.20	99.45	103.05
Total %	53.11	53.11	53.11	53.11	53.11	53.10	53.11	53.12
Cations (Atom Mole ppm)								
Be	6.53	8.90	7.45	9.35	8.22	8.15	6.19	6.46
Na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mg	51.48	54.97	56.91	52.72	53.17	41.19	54.41	50.64
Al	399105.58	399084.68	399086.38	399122.75	399100.96	399145.44	399090.16	399067.73
Ti	32.99	34.73	35.31	32.03	33.82	22.81	35.67	36.70
V	1.94	2.48	2.52	2.22	2.36	2.36	2.39	2.44
Cr	6.66	6.23	6.53	6.93	7.29	7.31	7.14	6.95
Mn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe	766.22	778.93	776.37	746.07	766.74	744.66	775.02	799.01
Ga	37.66	40.52	35.73	37.37	37.19	37.19	37.19	37.19
Total (Atom Mole %)	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Mg-Ti	18.49	20.23	21.60	20.68	19.35	18.38	18.73	13.95
Be-Ti	-26.46	-25.84	-27.86	-22.69	-25.60	-14.66	-29.49	-30.24
(Be+Mg)-Ti	25.01	29.13	29.05	30.03	27.57	26.54	24.92	20.40
(Be+Mg)%	6.77	7.28	7.35	7.39	7.12	6.04	6.95	6.40
Ti%	3.85	3.96	4.03	3.81	3.92	2.79	4.09	4.11
Fe%	89.39	88.76	88.62	88.80	88.95	91.17	88.95	89.49
Mg/Ti	1.56	1.58	1.61	1.65	1.57	1.81	1.53	1.38
(Be+Mg)/Ti	1.76	1.84	1.82	1.94	1.82	2.16	1.70	1.56



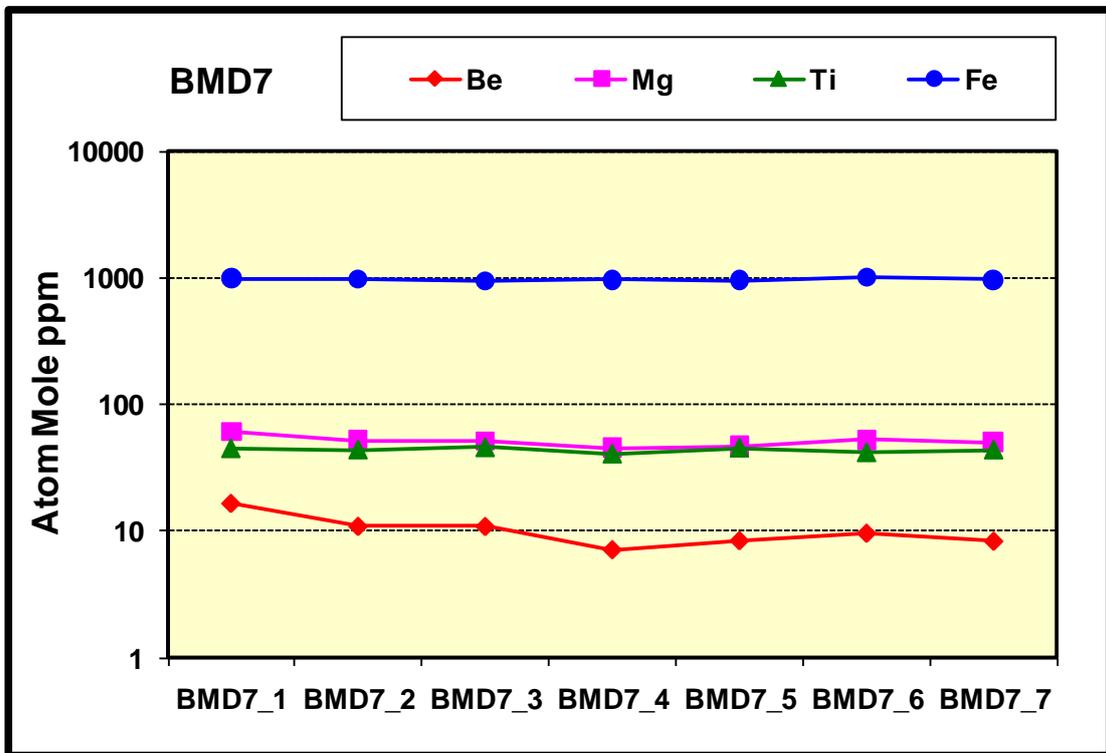
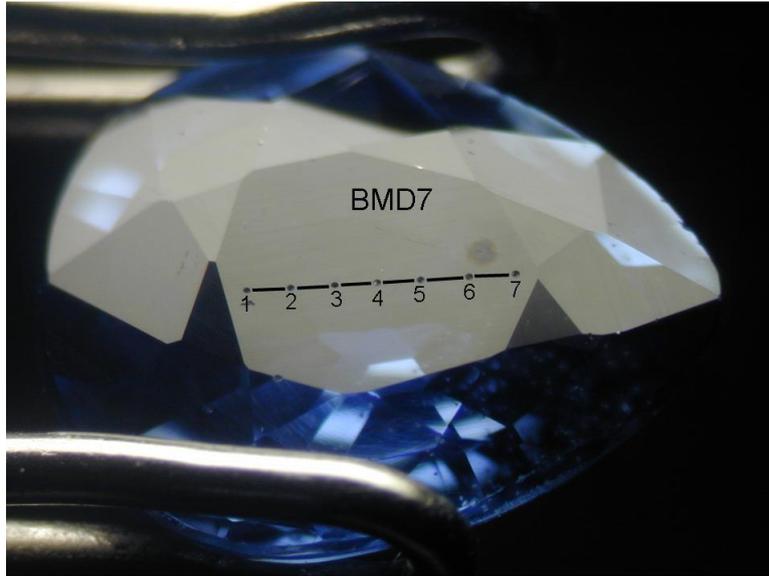


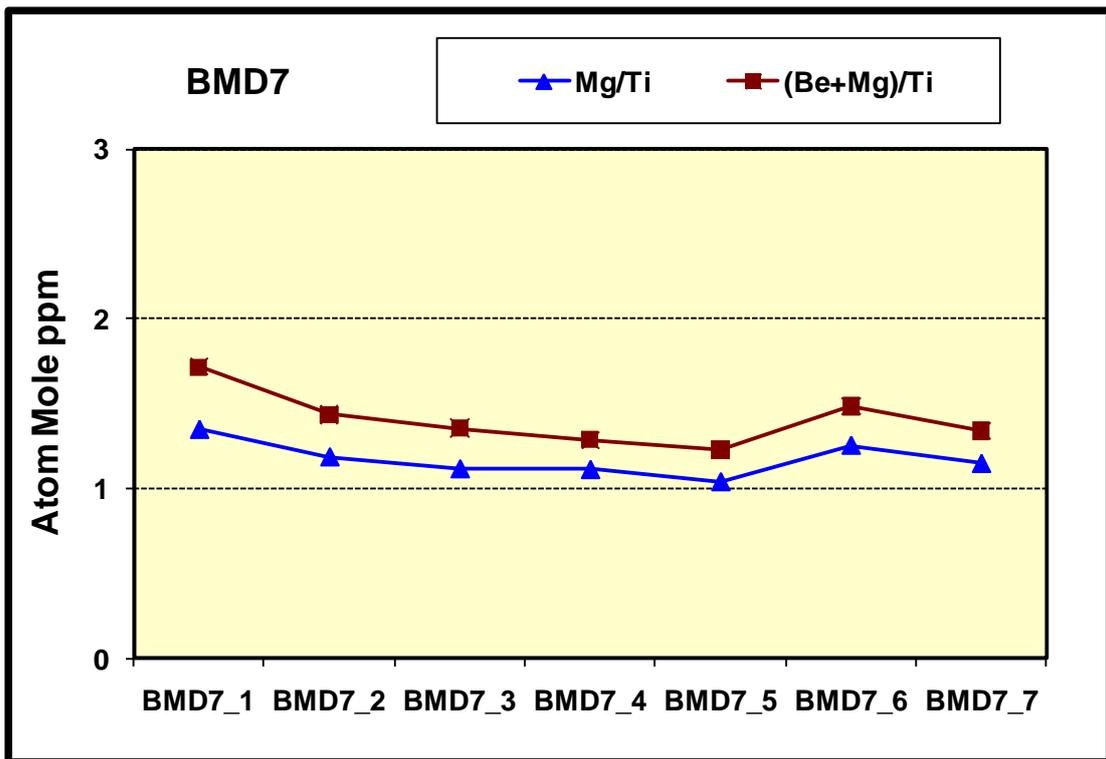
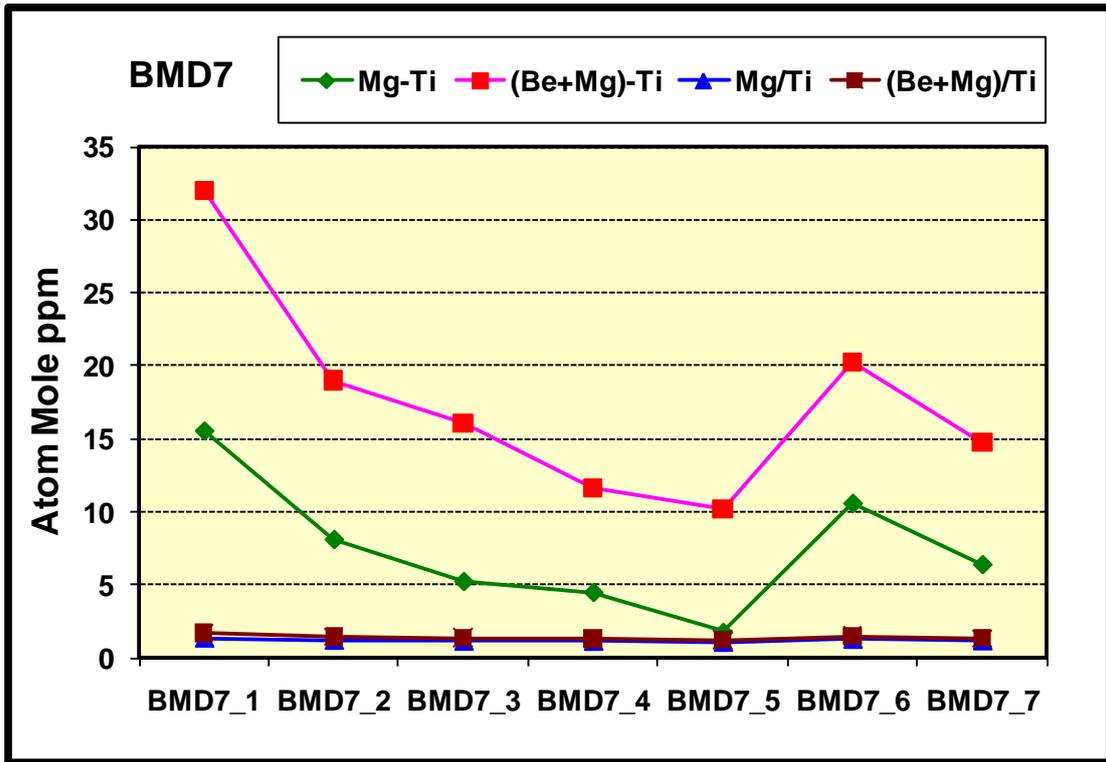
BMD5	BMD5_1	BMD5_2	BMD5_3	BMD5_4	BMD5_5	BMD5_6
Cations (ppm by weight)						
Be	3.69	4.57	3.69	2.72	3.22	3.8
Na	<6.59	<5.35	<5.19	<4.89	<6.36	<6.23
Mg	59.3	54.81	51.36	49.55	48.18	60.4
Al	529197.5	529197.5	529197.5	529197.5	529197.5	529197.5
Ti	73.06	70.15	79.25	76.71	64.37	80.68
V	7.03	7.54	8.35	7.72	7.82	8.1
Cr	83.65	87.35	92.76	89.02	86.04	98.29
Mn	<0.39	<0.32	<0.31	<0.29	<0.37	<0.36
Fe	2044.73	1996.8	2062.29	2010.84	1932.53	2244.97
Ga	77.98	78.8	82.04	79.65	78.73	86.44
Total %	53.12	53.11	53.12	53.12	53.11	53.13356
Cations (Atom Mole ppm)						
Be	8.33	10.32	8.33	6.14	7.27	8.58
Na	0.00	0.00	0.00	0.00	0.00	0.00
Mg	49.64	45.89	43.00	41.48	40.34	50.55
Al	399107.74	399126.28	399100.10	399125.98	399161.09	399021.96
Ti	31.04	29.80	33.66	32.59	27.35	34.27
V	2.81	3.01	3.34	3.08	3.12	3.23
Cr	32.73	34.18	36.30	34.84	33.67	38.46
Mn	0.00	0.00	0.00	0.00	0.00	0.00
Fe	744.95	727.52	751.33	732.64	704.17	817.73
Ga	37.66	40.52	35.73	37.37	37.19	37.19
Total (Atom Mole %)	40.00	40.00	40.00	40.00	40.00	40.00
Mg-Ti	18.61	16.09	9.33	8.90	12.99	16.29
Be-Ti	-22.70	-19.48	-25.33	-26.45	-20.08	-25.69
(Be+Mg)-Ti	26.94	26.41	17.66	15.04	20.26	24.87
(Be+Mg)%	6.95	6.91	6.14	5.86	6.11	6.49
Ti%	3.72	3.66	4.03	4.01	3.51	3.76
Fe%	89.33	89.43	89.84	90.13	90.38	89.75
Mg/Ti	1.60	1.54	1.28	1.27	1.48	1.48
(Be+Mg)/Ti	1.87	1.89	1.52	1.46	1.74	1.73



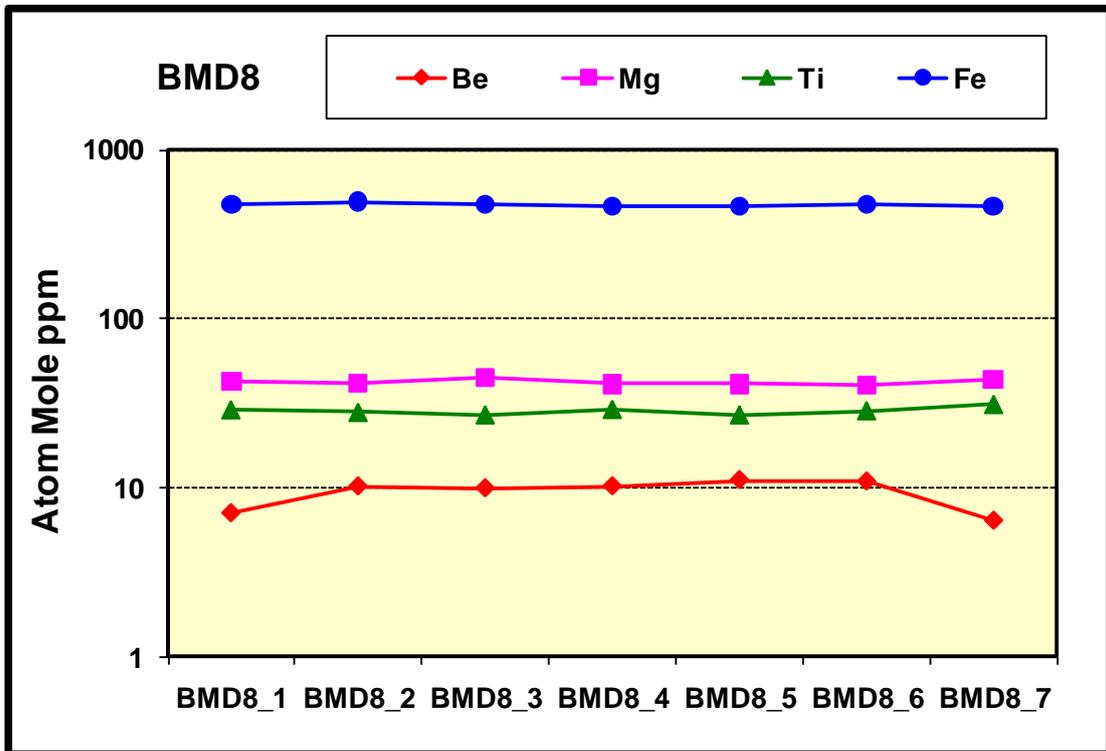
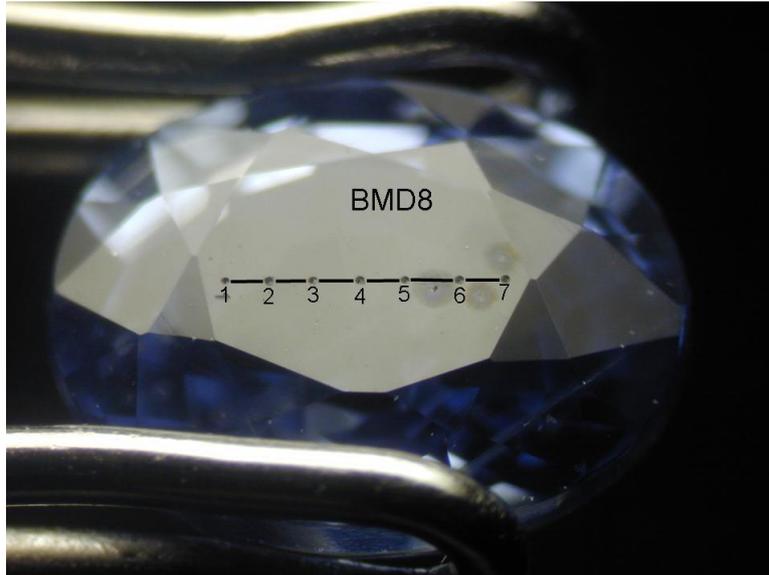


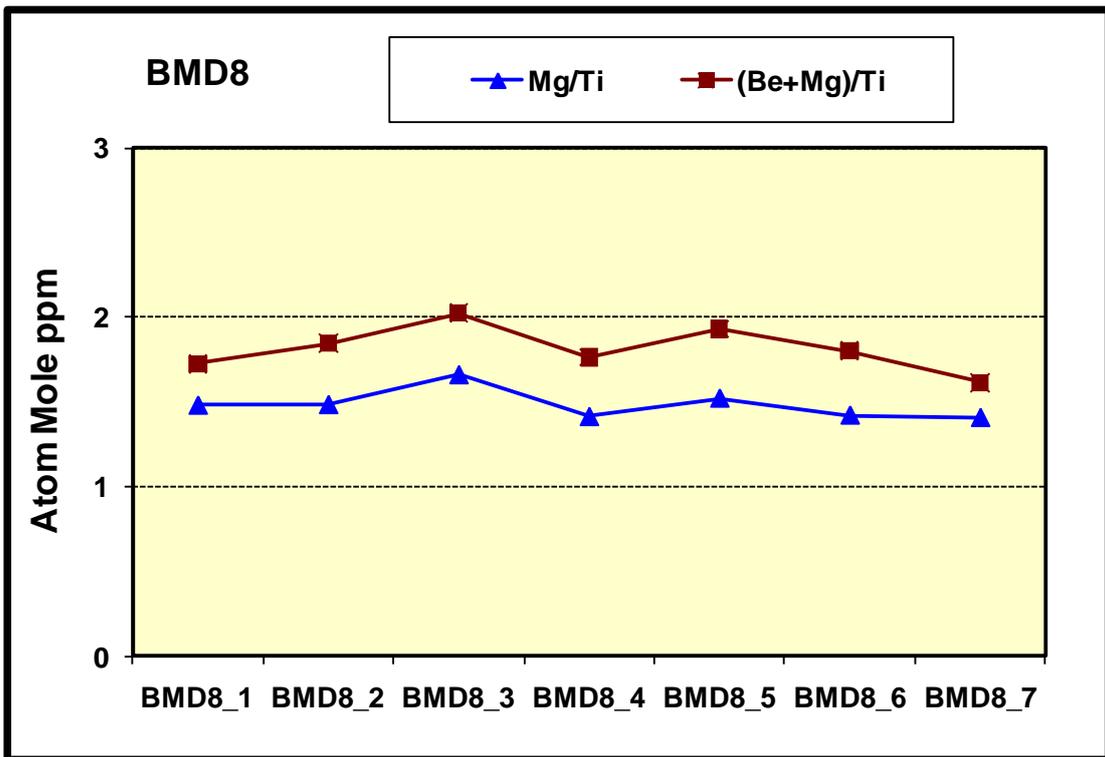
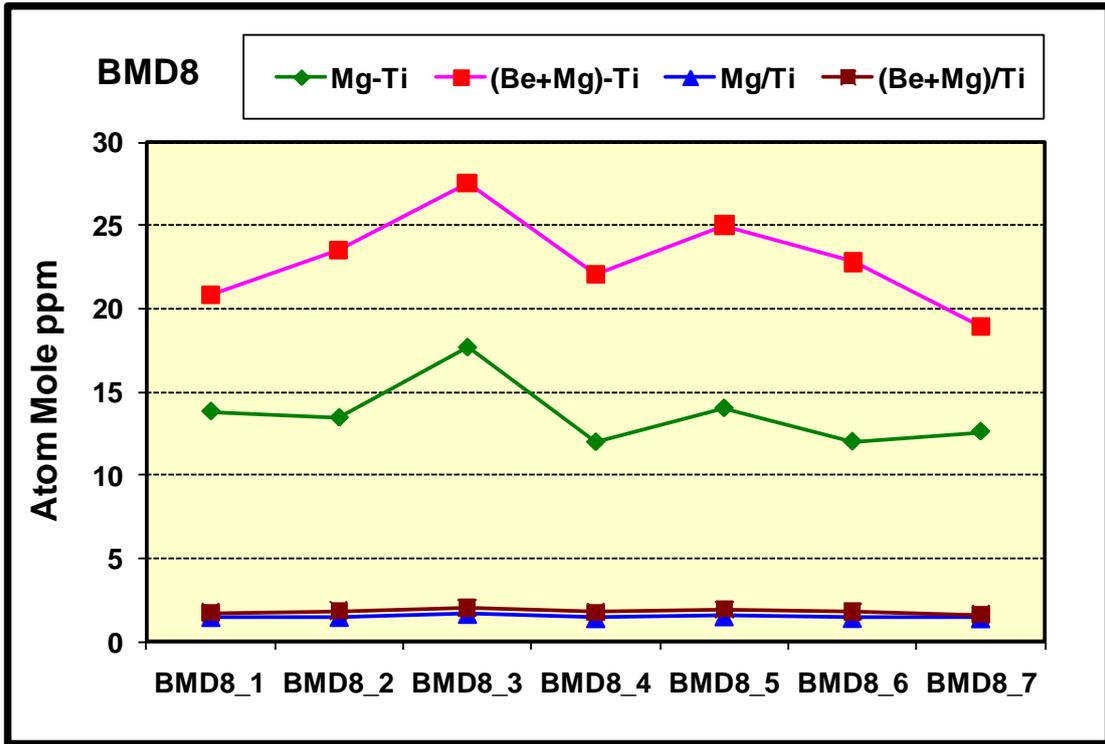
BMD6	BMD6_1	BMD6_2	BMD6_3	BMD6_4	BMD6_5	BMD6_6	BMD6_7	BMD6_8
Cations (ppm by weight)								
Be	212.48	2.66	4.93	5.06	4.89	6.57	3.90	5.82
Na	<6.54	<5.59	<5.75	<5.24	<5.65	<5.97	<6.52	<5.65
Mg	63.36	49.85	50.11	49.76	49.71	54.85	54.91	49.83
Al	529197.5	529197.5	529197.5	529197.5	529197.5	529197.50	529197.50	529197.44
Ti	247.91	79.77	72.27	66.02	67.95	80.98	90.17	78.00
V	10.79	10.98	11.58	10.21	10.63	12.30	11.13	11.77
Cr	41.15	41.1	41.17	39.57	39.87	41.43	40.00	43.18
Mn	<0.36	<0.31	<0.32	<0.29	<0.31	<0.32	<0.35	<0.30
Fe	3511.4	3130.23	3311.48	3227.93	2787.43	3217.63	3419.8	3107.16
Ga	100.31	96.01	98.41	95.7	89.12	97.82	97.25	93.78
Total %	53.27	53.22	53.24	53.21	53.20	53.22	53.22	53.21
Cations (Atom Mole ppm)								
Be	478.46	6.00	11.12	11.41	11.03	14.82	8.79	13.13
Na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mg	52.90	41.69	41.90	41.62	41.59	45.87	45.91	41.68
Al	398038.19	398730.66	398661.80	398696.70	398857.80	398684.30	398614.23	398732.21
Ti	105.03	33.85	30.67	28.02	28.85	34.36	38.26	33.10
V	4.30	4.38	4.62	4.07	4.24	4.91	4.44	4.70
Cr	16.06	16.07	16.09	15.47	15.59	16.20	15.63	16.88
Mn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe	1275.87	1139.35	1205.11	1174.81	1014.90	1171.03	1244.38	1130.96
Ga	37.66	40.52	35.73	37.37	37.19	37.19	37.19	37.19
Total (Atom Mole %)	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Mg-Ti	-52.13	7.84	11.24	13.60	12.74	11.51	7.66	8.57
Be-Ti	373.43	-27.85	-19.55	-16.60	-17.81	-19.55	-29.46	-19.97
(Be+Mg)-Ti	426.33	13.84	22.36	25.01	23.78	26.33	16.45	21.70
(Be+Mg)%	27.79	3.91	4.11	4.22	4.80	4.79	4.09	4.50
Ti%	5.49	2.77	2.38	2.23	2.63	2.71	2.86	2.72
Fe%	66.72	93.32	93.51	93.55	92.57	92.49	93.05	92.79
Mg/Ti	0.50	1.23	1.37	1.49	1.44	1.33	1.20	1.26
(Be+Mg)/Ti	5.06	1.41	1.73	1.89	1.82	1.77	1.43	1.66



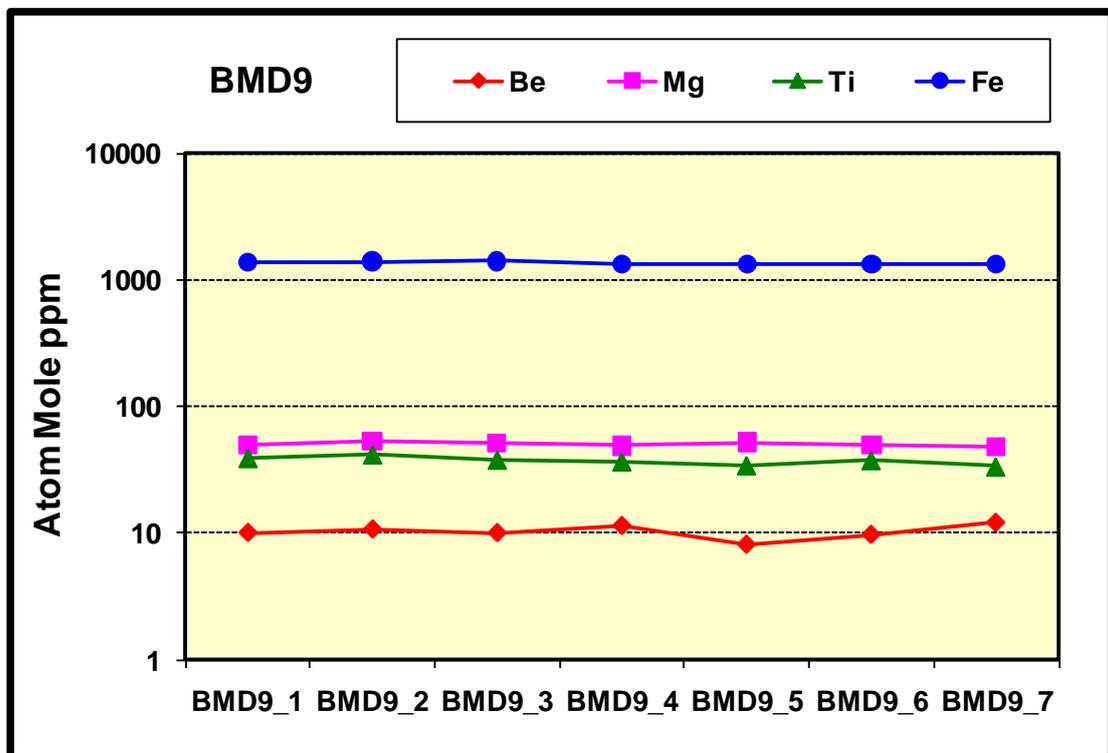
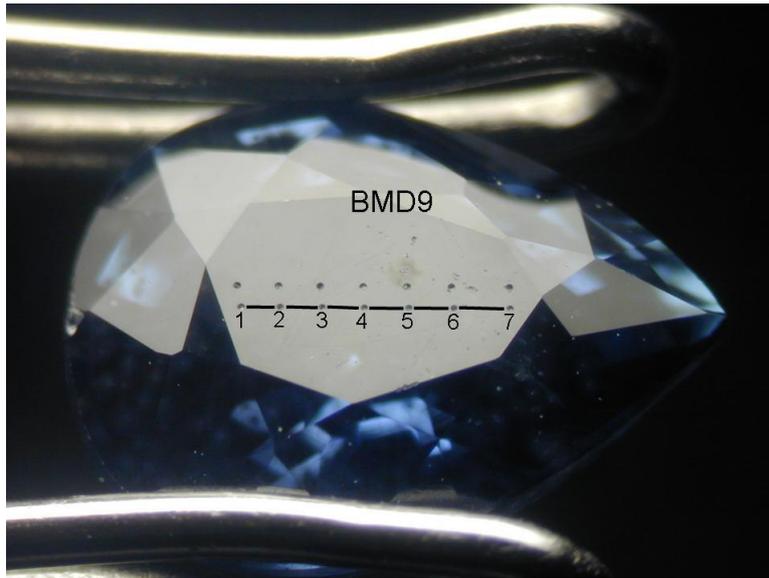


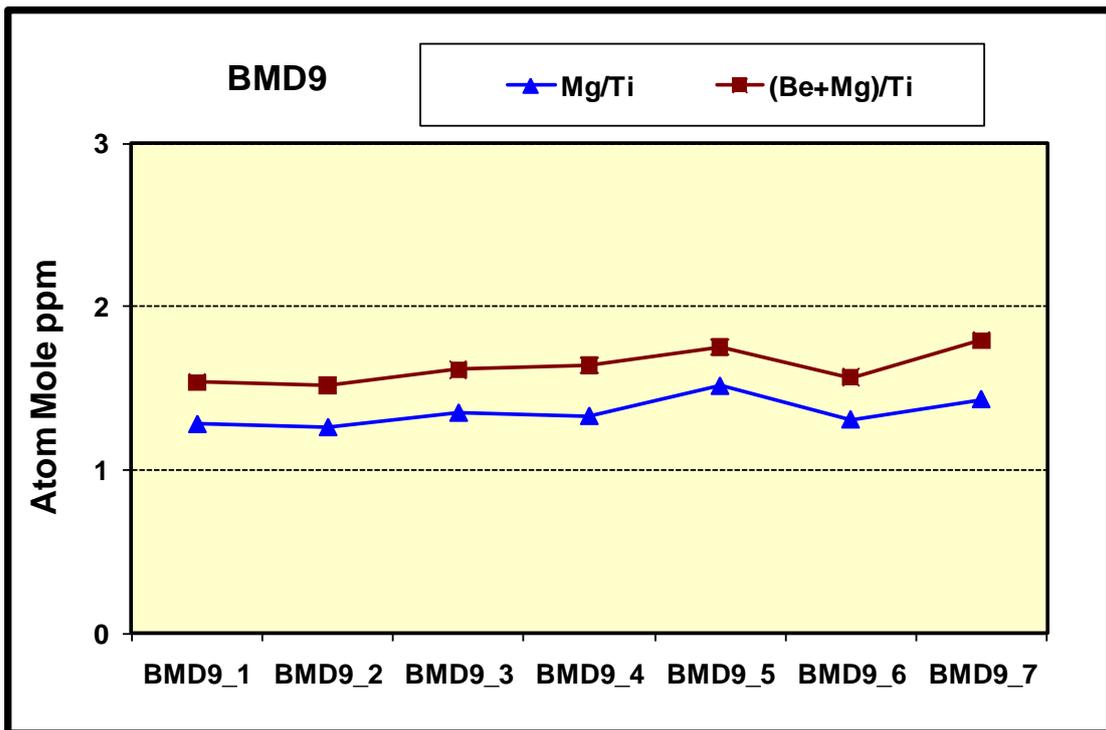
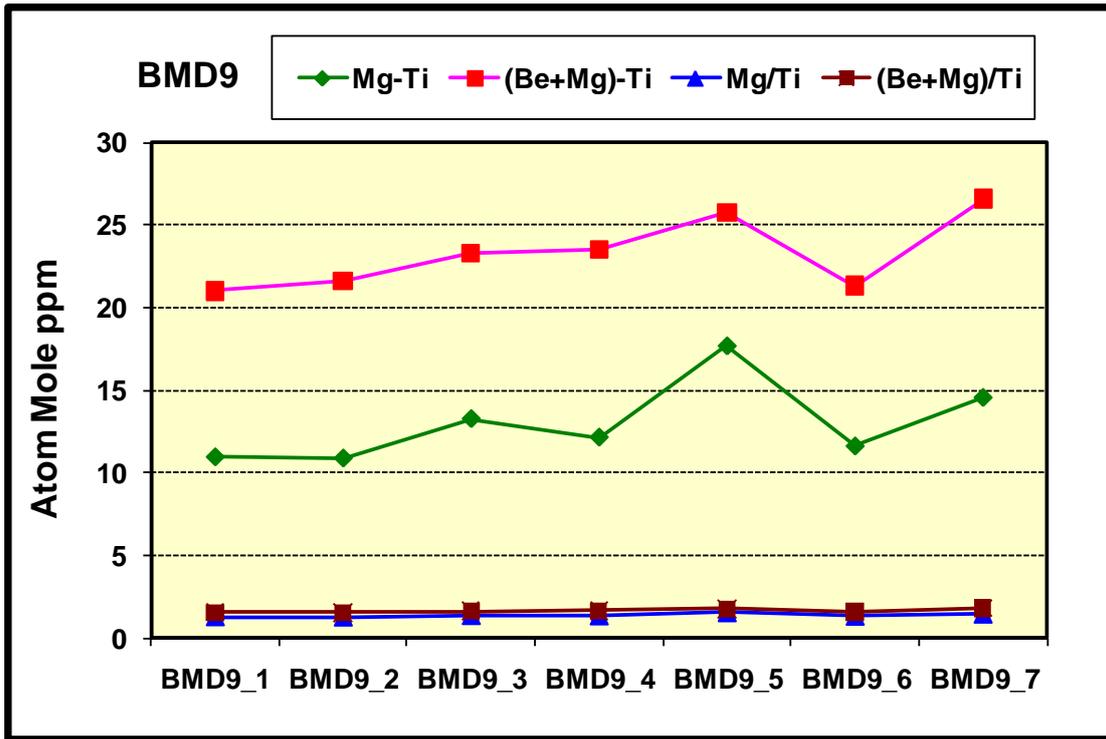
BMD7	BMD7_1	BMD7_2	BMD7_3	BMD7_4	BMD7_5	BMD7_6	BMD7_7
Cations (ppm by weight)							
Be	7.29	4.82	4.81	3.17	3.73	4.26	3.69
Na	<7.31	<7.19	<7.38	<7.15	<7.11	<7.38	<6.85
Mg	72.12	62.09	60.73	54.1	56.21	62.53	59.98
Al	529197.44	529197.44	529197.5	529197.5	529197.5	529197.50	529197.44
Ti	105.51	103.23	107.32	96.01	106.62	98.28	103.11
V	13.84	13.63	13.4	13.66	14.26	13.77	13.58
Cr	41.31	43.09	42.65	37.67	35.82	35.49	34.06
Mn	<0.36	<0.36	<0.36	<0.35	<0.34	<0.36	<0.33
Fe	2712.33	2647.4	2609.36	2638.68	2622.65	2747.87	2633.1
Ga	95.93	89.35	94.21	94.88	86.63	96.41	89.68
Total %	53.19	53.17	53.18	53.17	53.17	53.18	53.18
Cations (Atom Mole ppm)							
Be	16.45	10.88	10.85	7.15	8.42	9.61	8.33
Na	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mg	60.34	51.95	50.81	45.27	47.03	52.31	50.19
Al	398841.25	398881.02	398893.11	398898.12	398899.31	398848.38	398894.01
Ti	44.79	43.83	45.56	40.76	45.27	41.72	43.78
V	5.52	5.44	5.35	5.45	5.69	5.50	5.42
Cr	16.16	16.85	16.68	14.73	14.01	13.88	13.32
Mn	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe	987.51	963.97	950.15	960.84	955.00	1000.47	958.80
Ga	37.66	40.52	35.73	37.37	37.19	37.19	37.19
Total (Atom Mole %)	40.00						
Mg-Ti	15.55	8.12	5.25	4.50	1.77	10.59	6.41
Be-Ti	-28.34	-32.95	-34.71	-33.61	-36.85	-32.11	-35.45
(Be+Mg)-Ti	32.00	19.00	16.10	11.66	10.18	20.21	14.74
(Be+Mg)%	6.92	5.87	5.83	4.97	5.25	5.61	5.51
Ti%	4.04	4.09	4.31	3.87	4.29	3.78	4.13
Fe%	89.04	90.04	89.86	91.16	90.46	90.61	90.36
Mg/Ti	1.35	1.19	1.12	1.11	1.04	1.25	1.15
(Be+Mg)/Ti	1.71	1.43	1.35	1.29	1.22	1.48	1.34



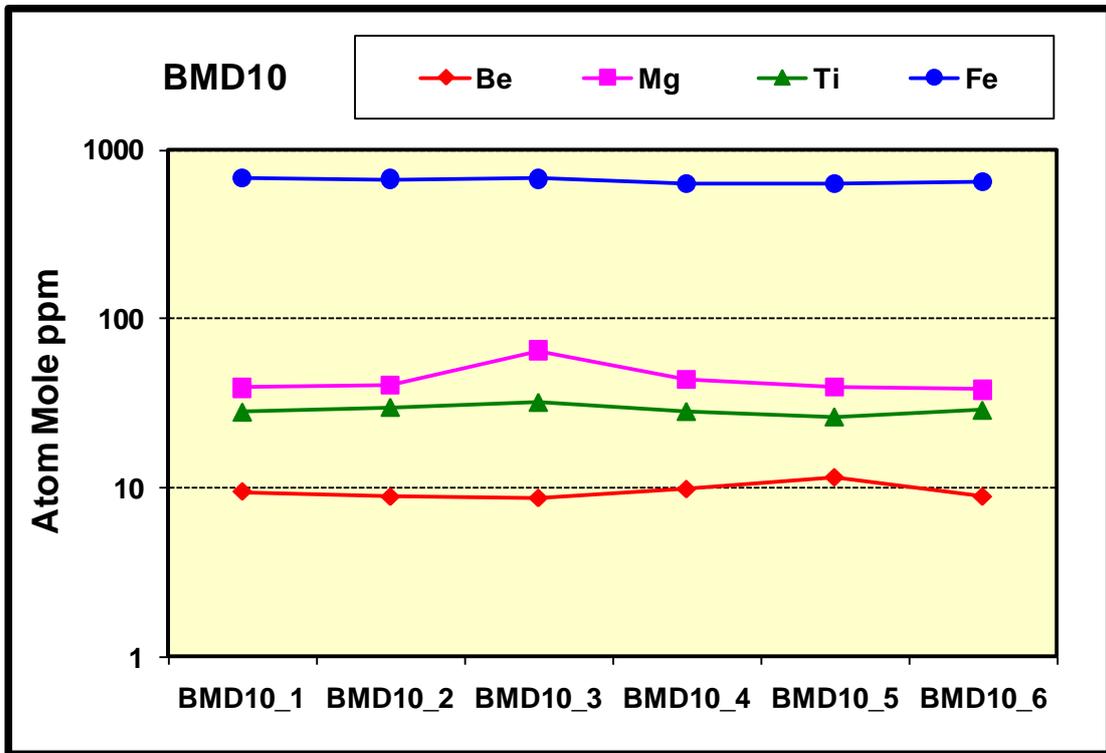
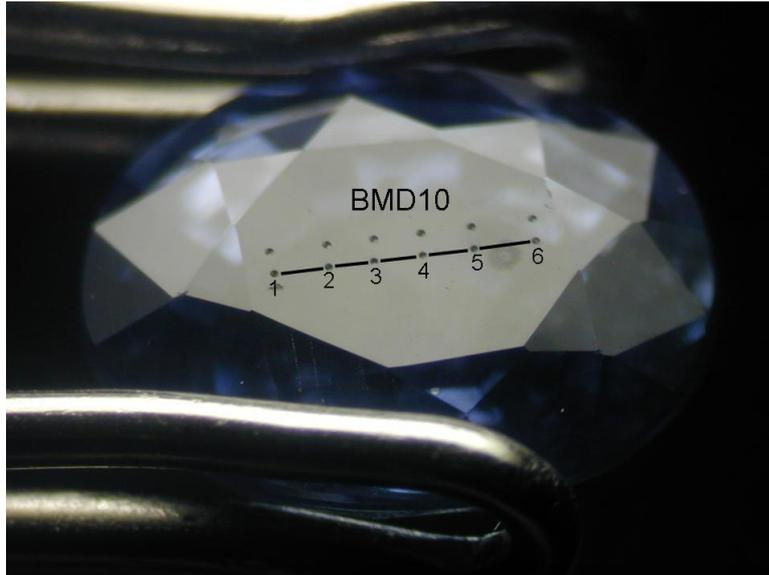


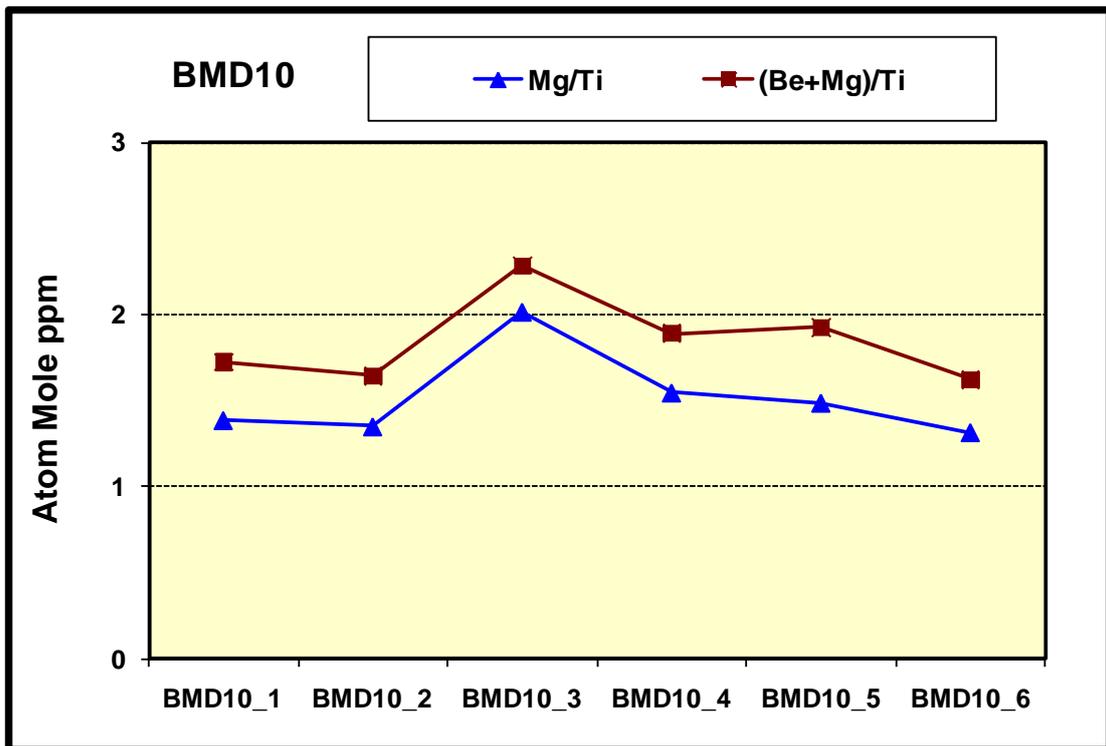
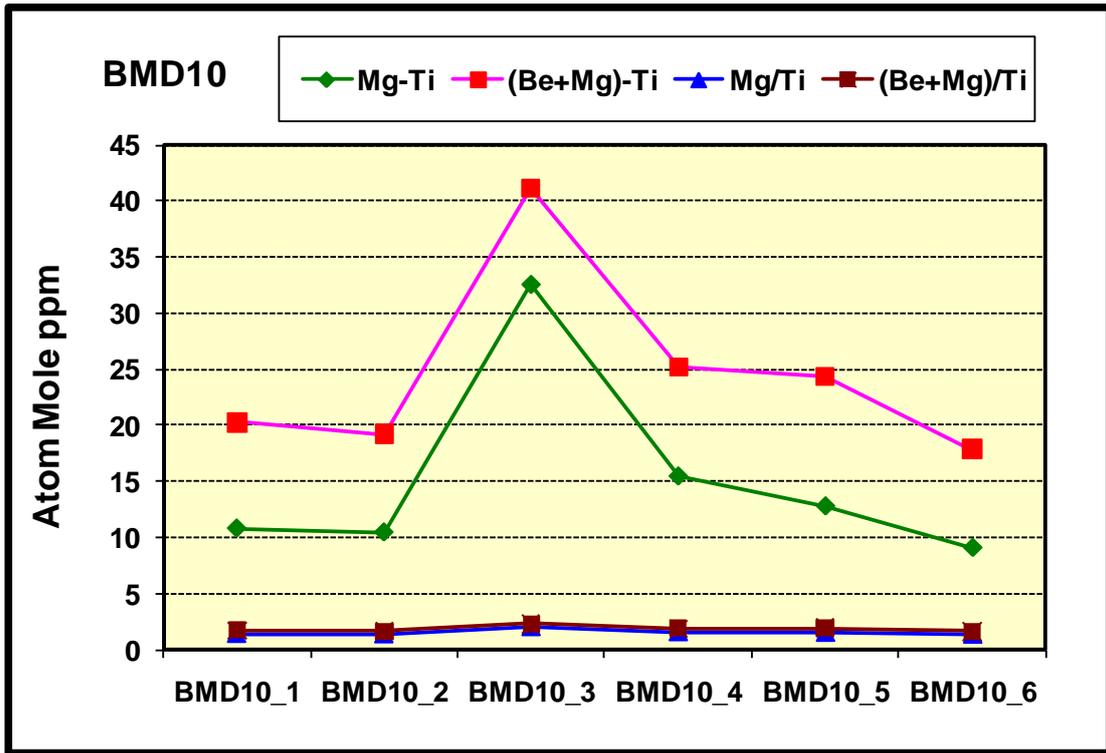
BMD8	BMD8_1	BMD8_2	BMD8_3	BMD8_4	BMD8_5	BMD8_6	BMD8_7
Cations (ppm by weight)							
Be	3.11	4.47	4.36	4.48	4.87	4.78	2.81
Na	<8.19	<7.52	17.80	9.35	<7.17	<7.19	<6.52
Mg	50.91	49.26	53.29	48.85	48.85	48.27	51.98
Al	529197.50	529197.50	529197.50	529197.50	529197.50	529197.50	529197.44
Ti	67.82	65.47	63.34	68.17	63.31	66.94	72.82
V	5.28	6.04	5.80	6.20	6.11	5.92	5.90
Cr	25.76	25.98	26.75	29.22	25.88	27.82	28.27
Mn	<0.39	<0.35	<0.33	<0.32	<0.33	<0.33	<0.30
Fe	1300.49	1352.86	1311.4	1269.12	1270.56	1306.78	1279.4
Ga	76.48	77.62	71.67	74.70	72.90	74.59	71.58
Total %	53.05	53.06	53.06	53.05	53.05	53.05	53.05
Cations (Atom Mole ppm)							
Be	7.03	10.10	9.85	10.12	11.00	10.80	6.35
Na	0.00	0.00	15.77	8.28	0.00	0.00	0.00
Mg	42.65	41.27	44.64	40.93	40.93	40.44	43.55
Al	399412.79	399392.31	399390.97	399413.22	399424.02	399408.80	399418.32
Ti	28.83	27.83	26.93	28.98	26.92	28.46	30.96
V	2.11	2.41	2.32	2.48	2.44	2.37	2.36
Cr	10.09	10.17	10.48	11.44	10.14	10.90	11.07
Mn	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe	474.17	493.23	478.12	462.73	463.27	476.45	466.48
Ga	37.66	40.52	35.73	37.37	37.19	37.19	37.19
Total (Atom Mole %)	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Mg-Ti	13.82	13.44	17.72	11.95	14.01	11.98	12.59
Be-Ti	-21.80	-17.73	-17.07	-18.86	-15.91	-17.66	-24.61
(Be+Mg)-Ti	20.85	23.54	27.57	22.07	25.02	22.78	18.94
(Be+Mg)%	8.99	8.97	9.74	9.41	9.58	9.21	9.12
Ti%	5.22	4.86	4.81	5.34	4.96	5.12	5.66
Fe%	85.79	86.16	85.45	85.25	85.46	85.67	85.23
Mg/Ti	1.48	1.48	1.66	1.41	1.52	1.42	1.41
(Be+Mg)/Ti	1.72	1.85	2.02	1.76	1.93	1.80	1.61



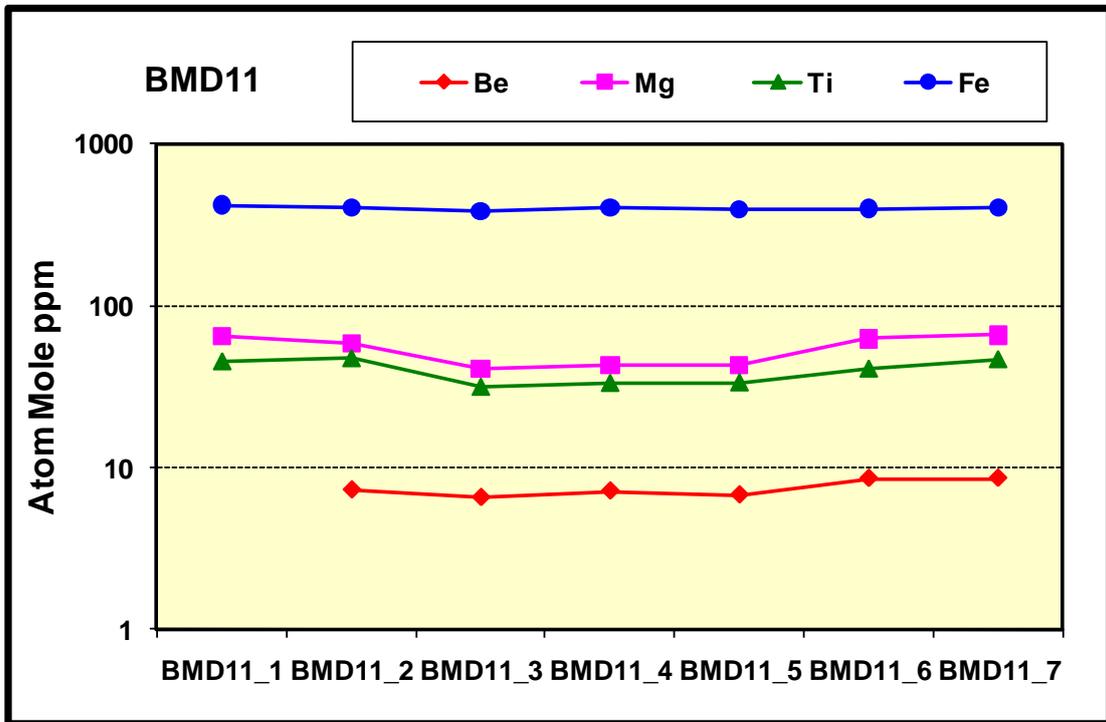
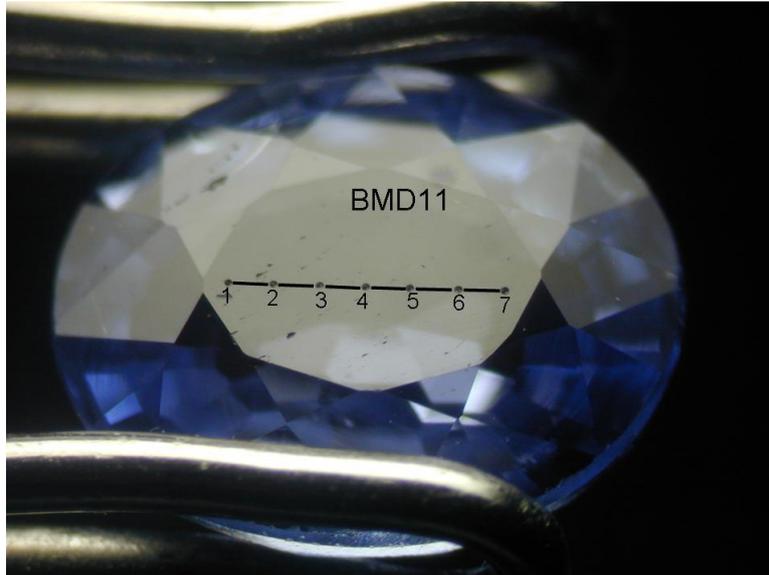


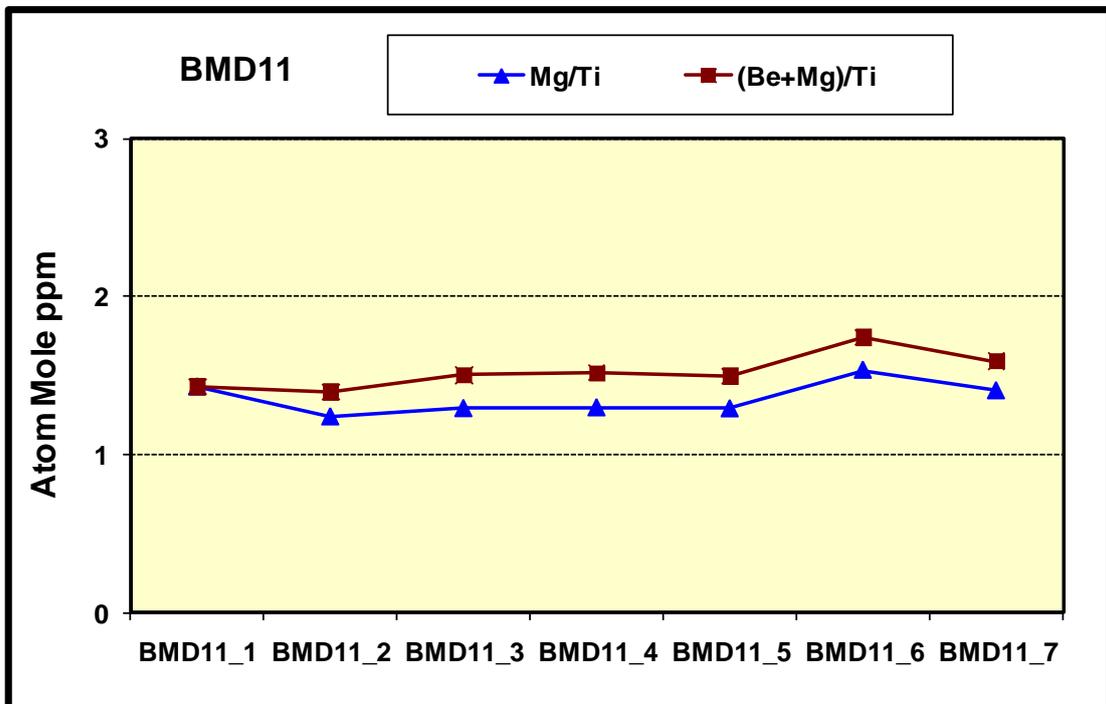
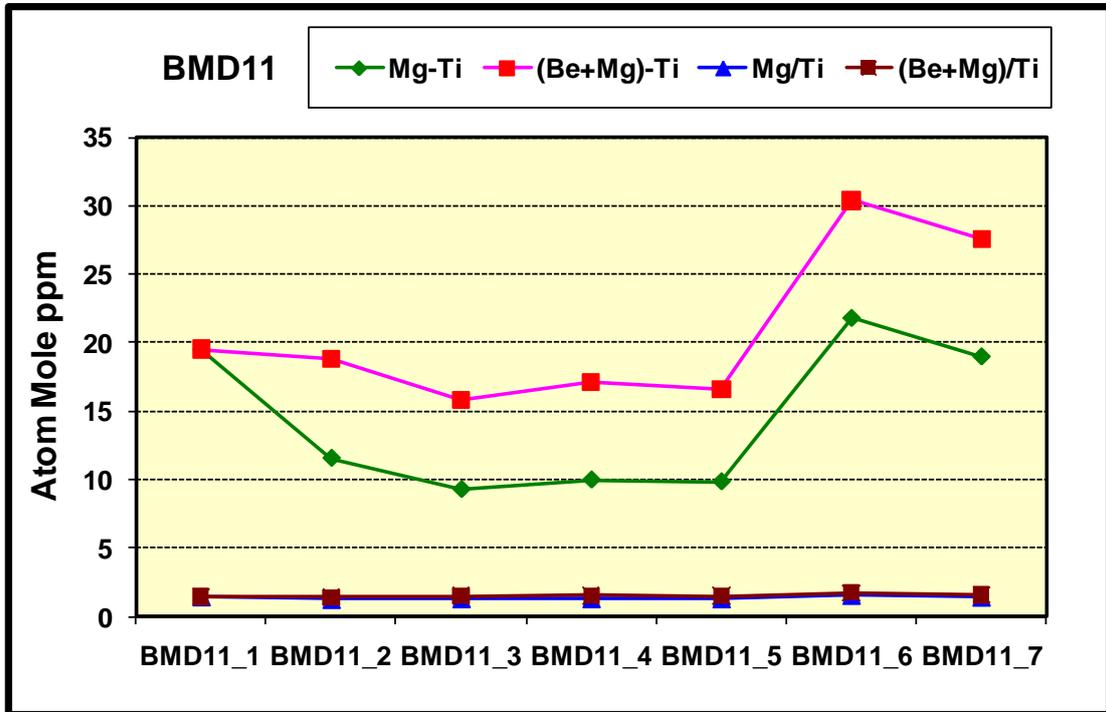
BMD9	BMD9_1	BMD9_2	BMD9_3	BMD9_4	BMD9_5	BMD9_6	BMD9_7
Cations (ppm by weight)							
Be	4.46	4.75	4.45	5.06	3.61	4.31	5.35
Na	<7.67	<8.74	9.08	<8.65	<8.98	<8.87	<9.17
Mg	59.86	62.92	61.27	58.54	62.16	58.94	57.52
Al	529197.56	529197.56	529197.63	529197.63	529197.50	529197.63	529197.50
Ti	92.19	98.38	89.52	86.78	80.94	88.83	79.13
V	6.20	6.67	6.34	6.03	7.10	6.14	6.43
Cr	35.95	34.38	33.24	33.58	33.47	33.98	32.49
Mn	<0.31	<0.36	<0.35	<0.34	<0.36	<0.35	<0.36
Fe	3734.98	3818.38	3846.61	3641.09	3658.73	3627.41	3624.59
Ga	95.63	95.57	94.50	92.92	92.59	90.34	97.37
Total %	53.26	53.28	53.28	53.26	53.26	53.26	53.25
Cations (Atom Mole ppm)							
Be	10.05	10.71	10.03	11.41	8.14	9.72	12.06
Na	0.00	0.00	8.02	0.00	0.00	0.00	0.00
Mg	50.04	52.59	51.21	48.94	51.96	49.27	48.09
Al	398497.75	398462.15	398450.61	398535.59	398531.62	398541.58	398543.98
Ti	39.10	41.72	37.96	36.81	34.33	37.68	33.57
V	2.47	2.66	2.53	2.41	2.83	2.45	2.56
Cr	14.05	13.43	12.99	13.12	13.08	13.28	12.70
Mn	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe	1358.67	1388.89	1399.12	1324.64	1331.05	1319.69	1318.67
Ga	37.66	40.52	35.73	37.37	37.19	37.19	37.19
Total (Atom Mole %)	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Mg-Ti	10.94	10.87	13.24	12.13	17.63	11.59	14.52
Be-Ti	-29.05	-31.02	-27.93	-25.40	-26.19	-27.96	-21.50
(Be+Mg)-Ti	20.99	21.57	23.28	23.54	25.77	21.31	26.58
(Be+Mg)%	4.12	4.24	4.09	4.24	4.22	4.16	4.26
Ti%	2.68	2.79	2.53	2.59	2.41	2.66	2.38
Fe%	93.20	92.97	93.38	93.17	93.38	93.17	93.36
Mg/Ti	1.28	1.26	1.35	1.33	1.51	1.31	1.43
(Be+Mg)/Ti	1.54	1.52	1.61	1.64	1.75	1.57	1.79



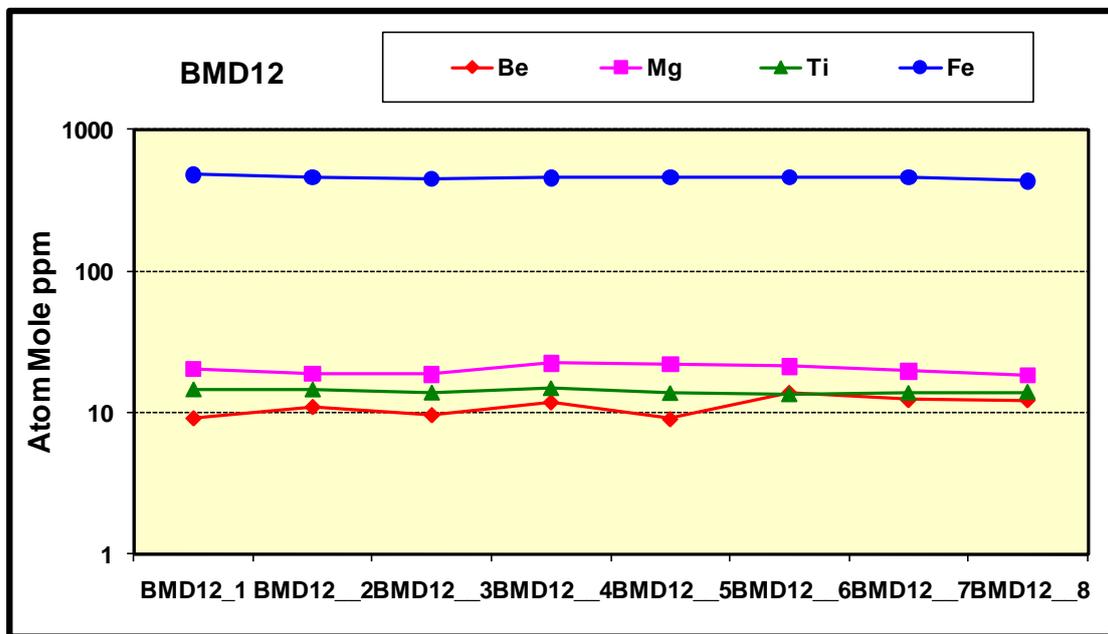


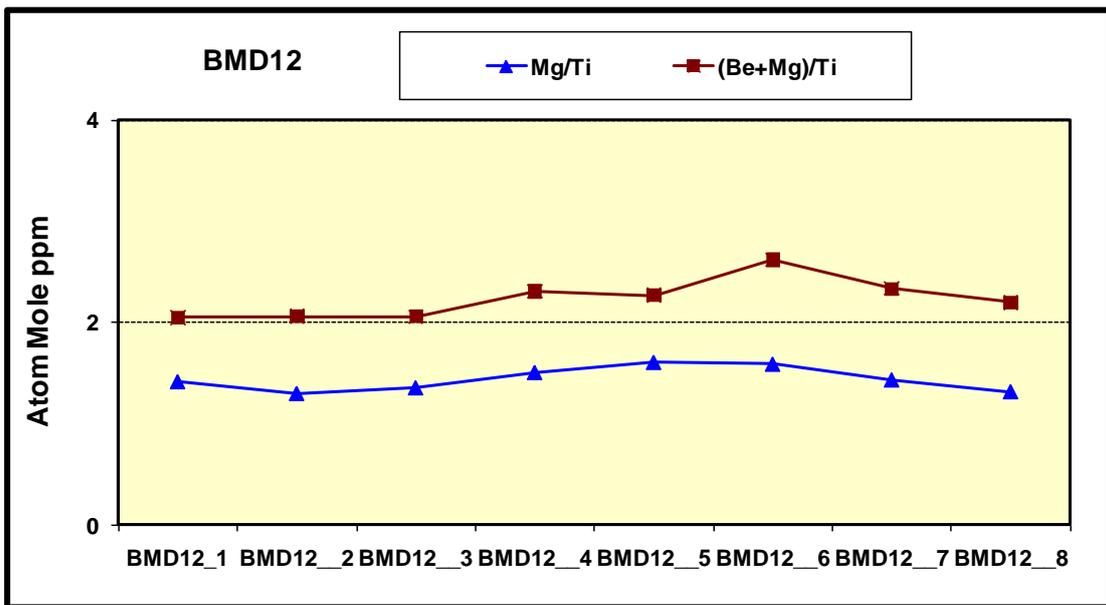
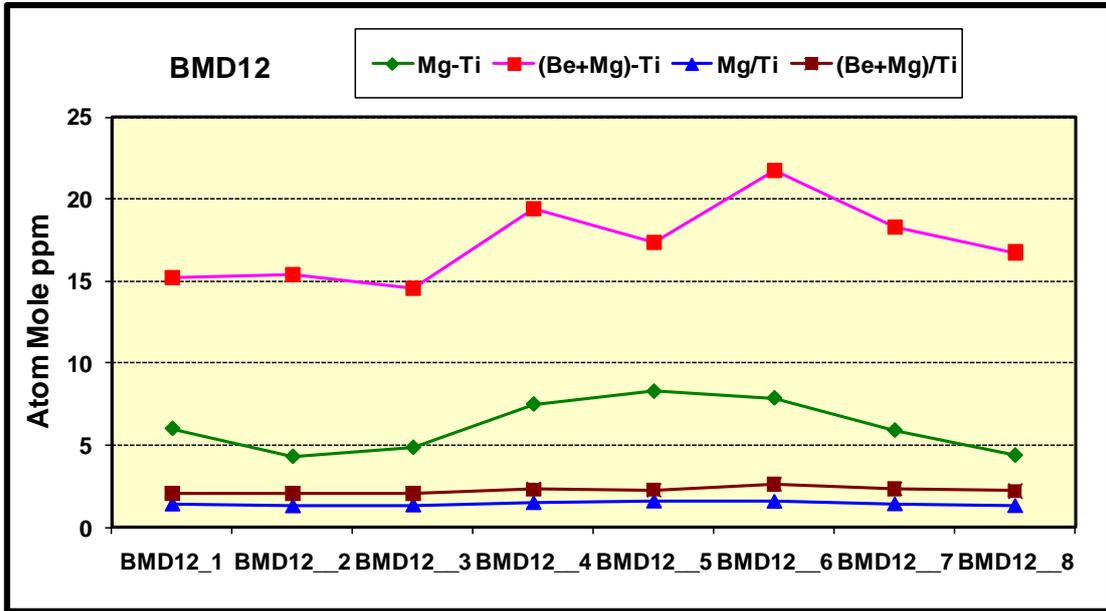
BMD10	BMD10_1	BMD10_2	BMD10_3	BMD10_4	BMD10_5	BMD10_6
Cations (ppm by weight)						
Be	4.18	3.88	3.81	4.32	5.10	3.89
Na	<8.66	<9.21	10.21	19.32	8.91	<8.05
Mg	46.42	48.29	77.19	52.29	46.68	45.23
Al	529197.56	529197.56	529197.5	529197.56	529197.56	529197.56
Ti	66.06	70.57	75.54	66.7	61.92	67.79
V	5.06	4.72	4.63	4.73	4.59	4.52
Cr	63.35	60.29	60.62	58.01	56.83	53.83
Mn	<0.33	<0.35	<0.35	<0.34	<0.32	<0.31
Fe	1877.7	1838.41	1848.46	1724.93	1714.68	1788.46
Ga	81.53	76.89	76.39	73.42	68.46	71.29
Total %	53.10	53.10	53.11	53.10	53.09	53.10
Cations (Atom Mole ppm)						
Be	9.44	8.76	8.60	9.76	11.52	8.79
Na	0.00	0.00	9.04	17.10	7.89	0.00
Mg	38.87	40.44	64.63	43.79	39.09	37.88
Al	399188.77	399202.94	399164.22	399226.35	399246.20	399229.06
Ti	28.07	29.98	32.09	28.34	26.31	28.81
V	2.02	1.89	1.85	1.89	1.83	1.81
Cr	24.80	23.60	23.73	22.71	22.25	21.07
Mn	0.00	0.00	0.00	0.00	0.00	0.00
Fe	684.24	669.94	673.54	628.62	624.92	651.78
Ga	37.66	40.52	35.73	37.37	37.19	37.19
Total (Atom Mole %)	40.00	40.00	40.00	40.00	40.00	40.00
Mg-Ti	10.80	10.45	32.54	15.45	12.78	9.07
Be-Ti	-18.63	-21.22	-23.49	-18.59	-14.79	-20.02
(Be+Mg)-Ti	20.24	19.21	41.14	25.20	24.30	17.86
(Be+Mg)%	6.35	6.57	9.40	7.54	7.21	6.42
Ti%	3.69	4.00	4.12	3.99	3.75	3.96
Fe%	89.96	89.43	86.48	88.47	89.04	89.62
Mg/Ti	1.38	1.35	2.01	1.55	1.49	1.31
(Be+Mg)/Ti	1.72	1.64	2.28	1.89	1.92	1.62



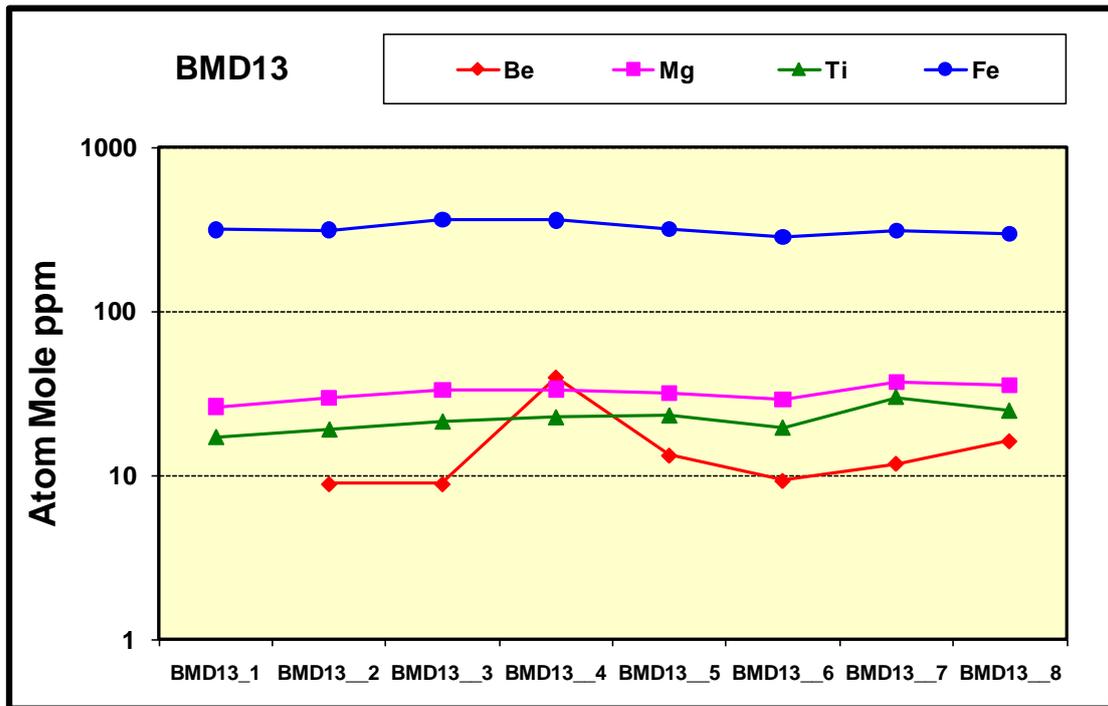
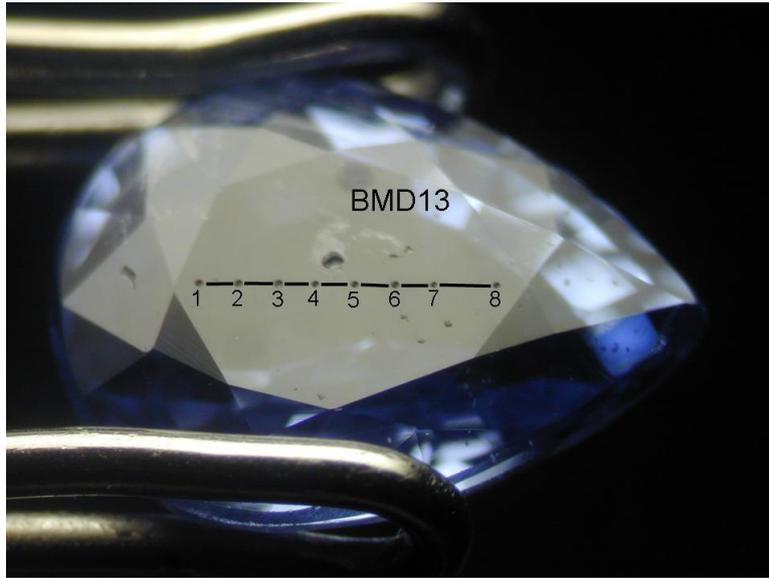


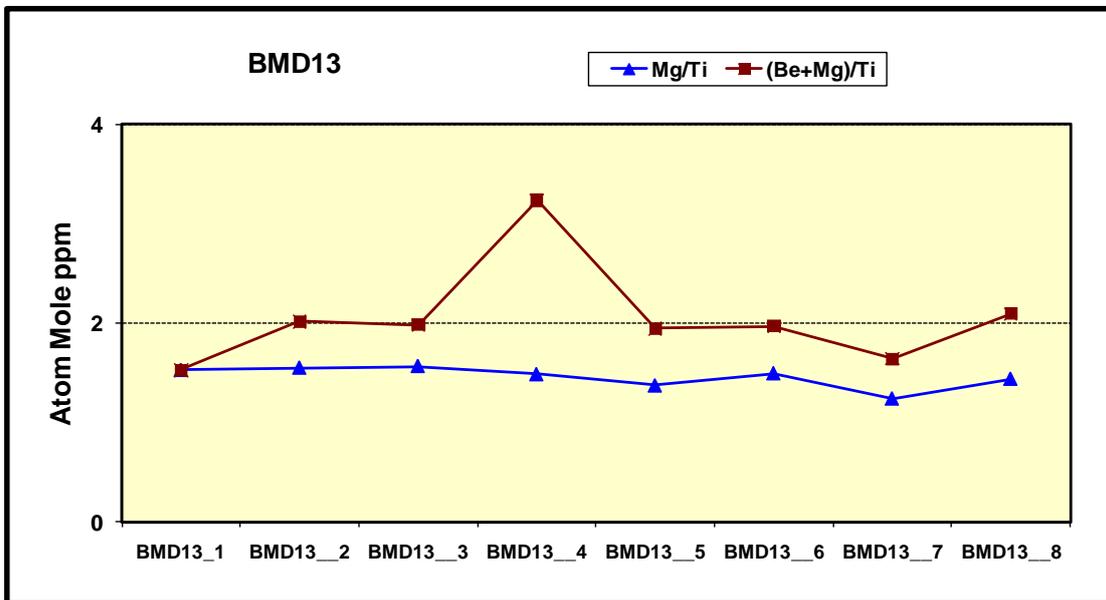
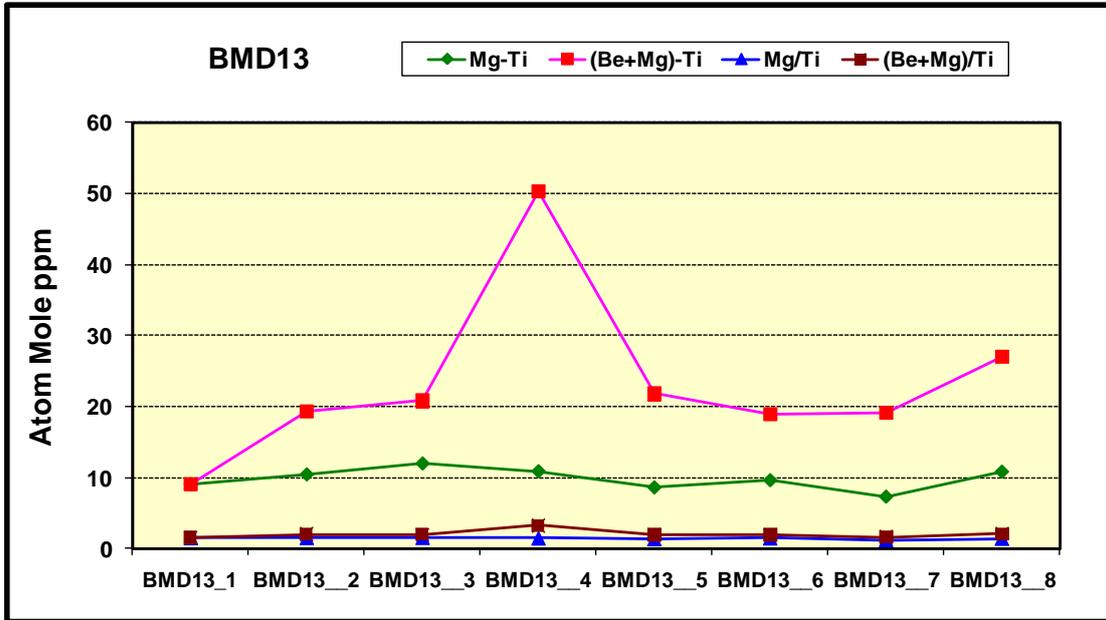
BMD11	BMD11_1	BMD11_2	BMD11_3	BMD11_4	BMD11_5	BMD11_6	BMD11_7
Cations (ppm by weight)							
Be	<1.53	3.22	2.89	3.17	3.00	3.79	3.80
Na	<8.21	<7.22	<7.27	<7.46	<7.08	<6.91	<6.47
Mg	77.62	70.63	48.67	51.65	51.80	74.97	78.69
Al	529197.38	529197.38	529197.38	529197.31	529197.38	529197.38	529197.38
Ti	107.09	112.02	74.13	78.36	78.97	96.43	110.40
V	13.72	15.22	15.22	16.40	14.37	15.33	16.12
Cr	40.47	41.22	50.58	50.41	46.56	38.05	42.88
Mn	<0.39	<0.35	<0.35	<0.36	<0.34	<0.33	<0.30
Fe	1154.64	1119.85	1057.9	1107.31	1081.99	1097.66	1108.88
Ga	82.81	84.35	78.61	84.06	78.95	78.23	79.68
Total %	53.04	53.04	53.03	53.04	53.03	53.04	53.04
Cations (Atom Mole ppm)							
Be	0.00	7.28	6.53	7.16	6.78	8.56	8.59
Na	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mg	65.03	59.18	40.78	43.28	43.41	62.82	65.93
Al	399422.92	399430.73	399486.52	399461.60	399474.63	399443.50	399427.72
Ti	45.53	47.62	31.52	33.32	33.58	41.00	46.93
V	5.48	6.08	6.09	6.56	5.75	6.13	6.44
Cr	15.85	16.14	19.81	19.74	18.24	14.90	16.79
Mn	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe	421.00	408.32	385.79	403.78	394.56	400.24	404.32
Ga	37.66	40.52	35.73	37.37	37.19	37.19	37.19
Total (Atom Mole %)	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Mg-Ti	19.51	11.55	9.26	9.96	9.83	21.82	19.00
Be-Ti	-45.53	-40.35	-24.99	-26.15	-26.80	-32.43	-38.35
(Be+Mg)-Ti	19.51	18.83	15.80	17.13	16.61	30.38	27.58
(Be+Mg)%	12.23	12.72	10.18	10.35	10.49	13.92	14.17
Ti%	8.56	9.12	6.78	6.83	7.02	8.00	8.93
Fe%	79.20	78.16	83.03	82.82	82.49	78.08	76.90
Mg/Ti	1.43	1.24	1.29	1.30	1.29	1.53	1.40
(Be+Mg)/Ti	1.43	1.40	1.50	1.51	1.49	1.74	1.59



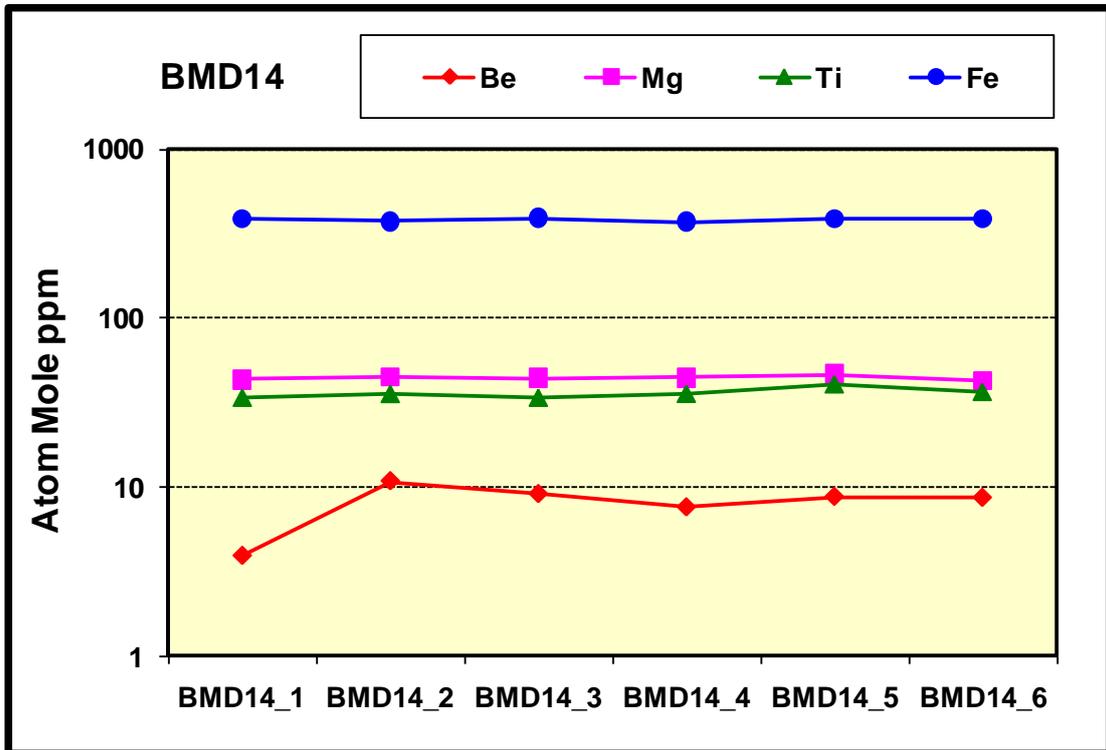
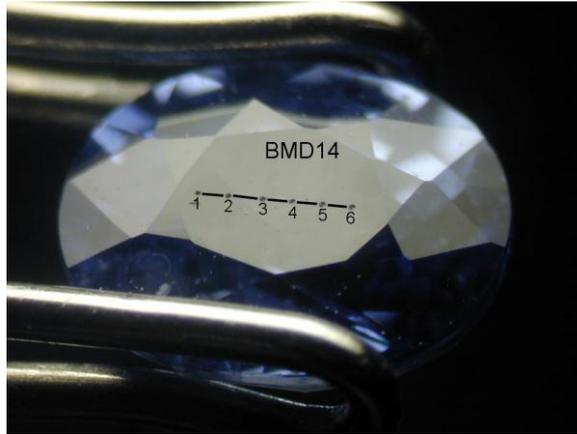


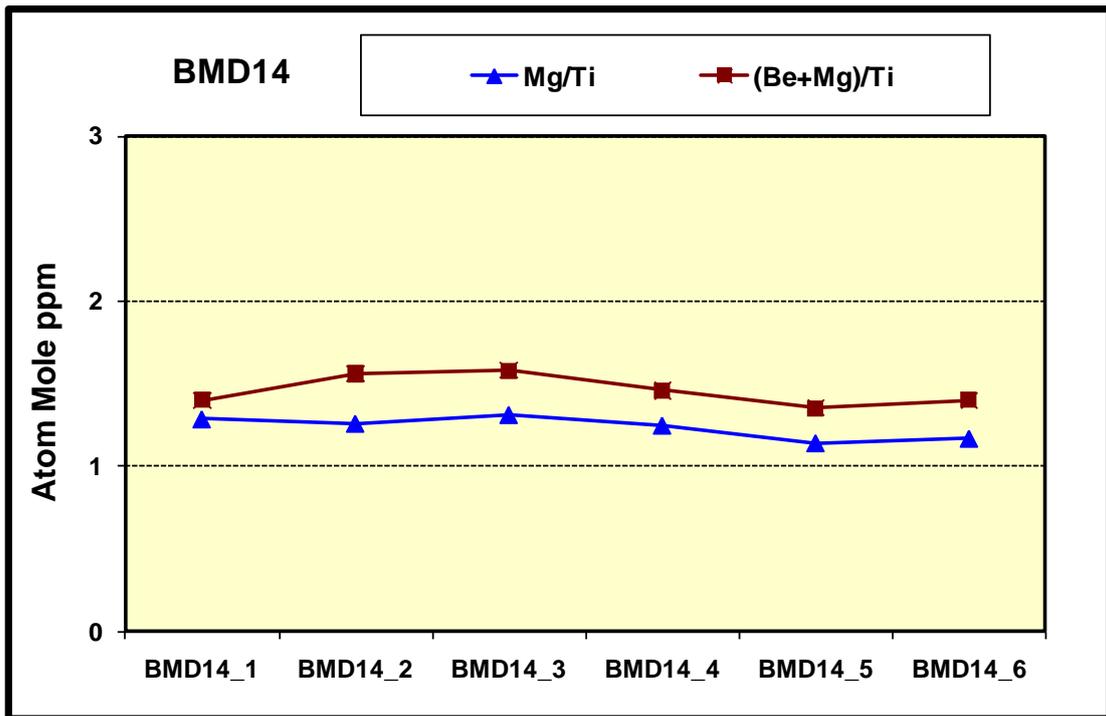
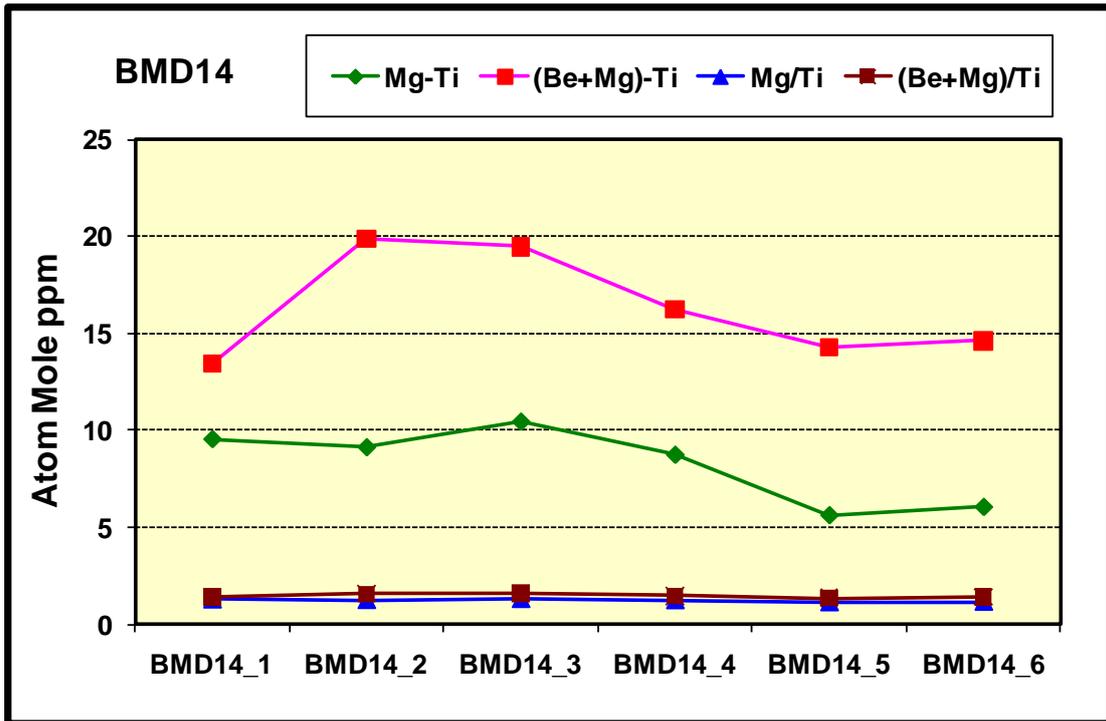
BMD12	BMD12_1	BMD12_2	BMD12_3	BMD12_4	BMD12_5	BMD12_6	BMD12_7	BMD12_8
Cations (ppm by weight)								
Be	4.08	4.89	4.29	5.27	4.02	6.13	5.47	5.46
Na	<7.47	<7.48	<6.12	<7.84	<7.62	<8.14	<7.12	<6.49
Mg	24.55	22.49	22.26	26.66	26.20	25.39	23.43	21.94
Al	529197.44	529197.44	529197.44	529197.44	529197.44	529197.44	529197.44	529197.44
Ti	34.25	34.18	32.44	34.94	32.21	31.57	32.29	32.91
V	5.38	5.70	4.81	5.61	5.40	5.33	5.42	4.57
Cr	10.40	9.52	12.06	11.79	11.00	10.12	10.55	9.75
Mn	<0.33	<0.34	<0.28	<0.35	<0.33	<0.35	<0.31	<0.28
Fe	1320.01	1264.23	1228.98	1251.79	1259.05	1270.94	1257.69	1188.35
Ga	65.96	56.16	52.98	56.71	57.07	55.73	56.94	52.66
Total %	53.04	53.04	53.03	53.03	53.04	53.04	53.04	53.03
Cations (Atom Mole ppm)								
Be	9.22	11.05	9.70	11.91	9.08	13.85	12.36	12.34
Na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mg	20.57	18.85	18.65	22.34	21.95	21.28	19.63	18.39
Al	399448.83	399472.14	399487.56	399470.99	399473.00	399465.62	399472.71	399500.88
Ti	14.56	14.53	13.79	14.86	13.70	13.42	13.73	13.99
V	2.15	2.28	1.92	2.24	2.16	2.13	2.17	1.83
Cr	4.07	3.73	4.72	4.62	4.31	3.96	4.13	3.82
Mn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe	481.33	461.01	448.18	456.48	459.13	463.45	458.63	433.37
Ga	37.66	40.52	35.73	37.37	37.19	37.19	37.19	37.19
Total (Atom Mole %)	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Mg-Ti	6.01	4.31	4.86	7.48	8.26	7.85	5.90	4.39
Be-Ti	-5.34	-3.48	-4.10	-2.95	-4.61	0.43	-1.37	-1.65
(Be+Mg)-Ti	15.23	15.36	14.56	19.39	17.34	21.71	18.27	16.73
(Be+Mg)%	5.67	5.91	5.78	6.77	6.16	6.86	6.34	6.43
Ti%	2.77	2.88	2.81	2.94	2.72	2.62	2.72	2.93
Fe%	91.56	91.21	91.41	90.29	91.12	90.52	90.93	90.65
Mg/Ti	1.41	1.30	1.35	1.50	1.60	1.58	1.43	1.31
(Be+Mg)/Ti	2.05	2.06	2.06	2.31	2.27	2.62	2.33	2.20



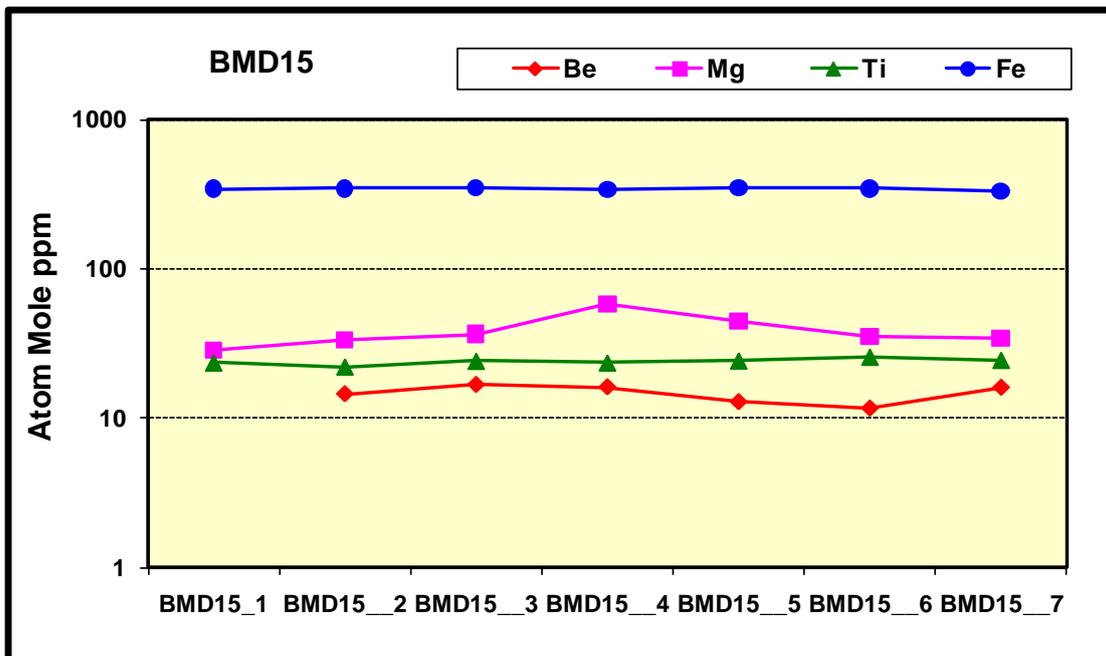
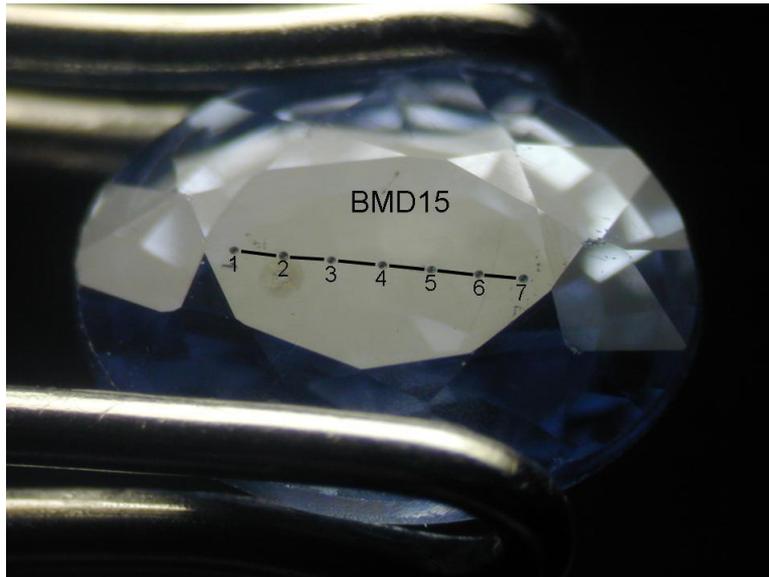


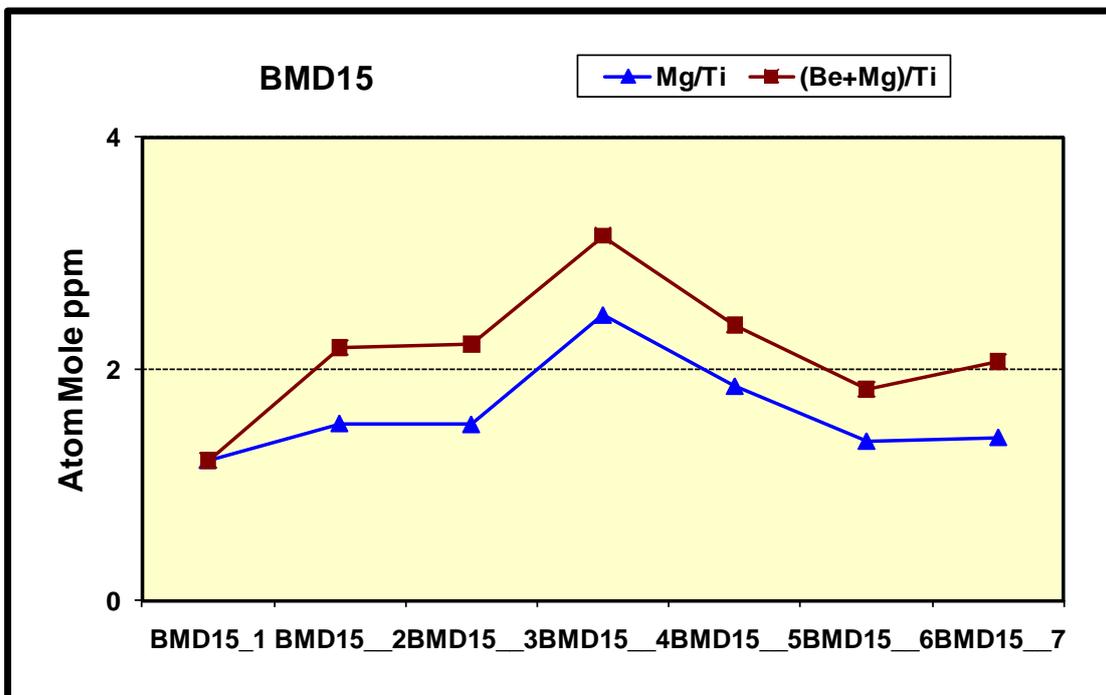
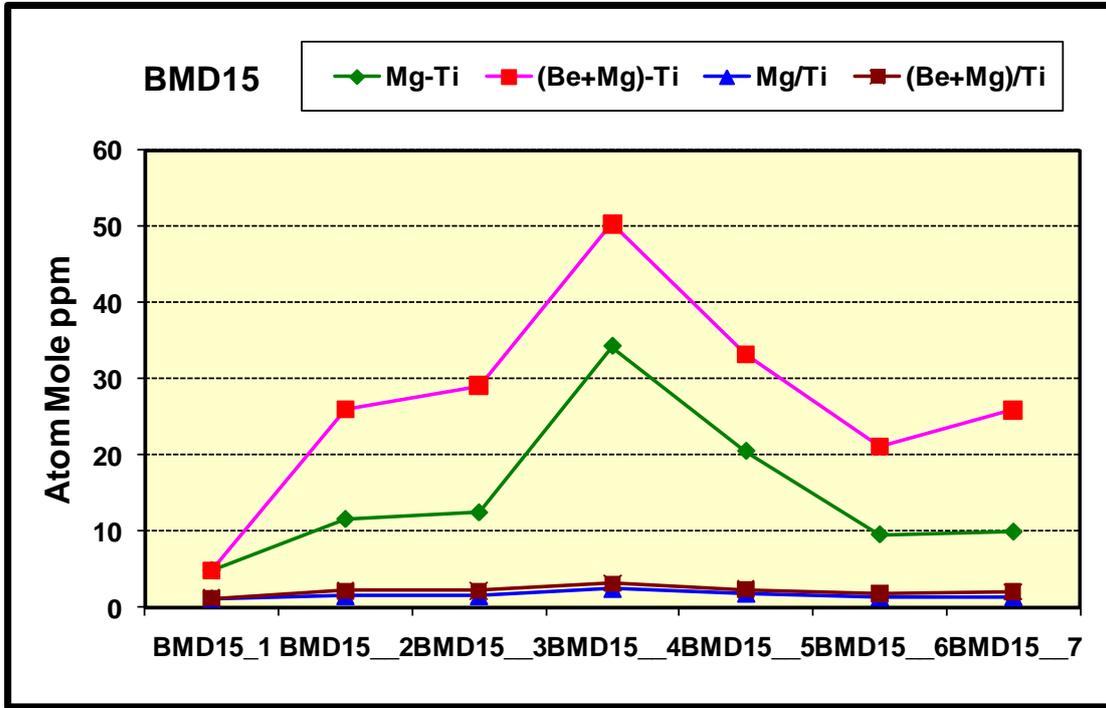
BMD13	BMD13_1	BMD13_2	BMD13_3	BMD13_4	BMD13_5	BMD13_6	BMD13_7	BMD13_8
Cations (ppm by weight)								
Be	<1.93	3.92	3.92	17.47	5.85	4.10	5.22	7.15
Na	<9.32	<6.44	<6.66	<6.67	<6.16	<5.91	<8.34	<7.52
Mg	31.25	35.15	39.61	39.85	37.8	34.75	44.30	42.31
Al	529197.5	529197.56	529197.5	529197.5	529197.5	529197.50	529197.44	529197.44
Ti	40.39	44.77	49.93	52.98	54.31	45.91	70.19	57.98
V	1.84	5.33	5.62	5.45	5	4.95	5.09	5.86
Cr	19.63	22.86	23.94	19.27	21.04	19.43	20.78	21.57
Mn	<0.40	<0.29	<0.30	<0.30	<0.28	<0.27	<0.38	<0.33
Fe	857.71	856.29	996.12	980.29	870.5	772.44	852.54	815.29
Ga	56.79	57.26	61.87	55.43	59.27	54.60	60.51	61.72
Total %	53.00	53.01	53.02	53.02	53.01	53.00	53.01	53.01
Cations (Atom Mole ppm)								
Be	0.00	8.86	8.86	39.49	13.22	9.27	11.80	16.16
Na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mg	26.20	29.46	33.20	33.40	31.68	29.13	37.13	35.46
Al	399618.72	399602.46	399543.70	399521.15	399586.91	399634.73	399582.39	399597.49
Ti	17.18	19.04	21.23	22.53	23.10	19.53	29.85	24.66
V	0.74	2.13	2.25	2.18	2.00	1.98	2.04	2.34
Cr	7.69	8.96	9.38	7.55	8.24	7.61	8.14	8.45
Mn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe	312.89	312.36	363.31	357.52	317.53	281.79	310.97	297.40
Ga	37.66	40.52	35.73	37.37	37.19	37.19	37.19	37.19
Total (Atom Mole %)	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Mg-Ti	9.02	10.42	11.96	10.87	8.59	9.60	7.28	10.80
Be-Ti	-17.18	-10.18	-12.37	16.96	-9.87	-10.26	-18.05	-8.50
(Be+Mg)-Ti	9.02	19.28	20.82	50.35	21.81	18.87	19.08	26.97
(Be+Mg)%	7.35	10.37	9.86	16.09	11.65	11.30	12.55	13.82
Ti%	4.82	5.15	4.98	4.97	5.99	5.75	7.66	6.60
Fe%	87.83	84.48	85.16	78.93	82.36	82.95	79.79	79.58
Mg/Ti	1.52	1.55	1.56	1.48	1.37	1.49	1.24	1.44
(Be+Mg)/Ti	1.52	2.01	1.98	3.24	1.94	1.97	1.64	2.09





BMD14	BMD14_1	BMD14_2	BMD14_3	BMD14_4	BMD14_5	BMD14_6
Cations (ppm by weight)						
Be	1.72	4.75	3.99	3.33	3.84	3.79
Na	<10.07	<8.22	12.62	<8.62	<8.27	<8.77
Mg	51.46	53.18	52.54	52.8	55.27	50.78
Al	529197.44	529197.5	529197.44	529197.5	529197.5	529197.44
Ti	78.97	83.35	78.99	83.52	95.71	85.86
V	5.07	7.05	6.81	7.05	6.98	7.29
Cr	33.05	35.64	36.58	35.74	35.98	35.30
Mn	<0.43	<0.36	<0.37	<0.37	<0.35	<0.37
Fe	1055.31	1022.62	1072.21	1016.22	1058.87	1060.07
Ga	60.9	58.99	60.17	58.12	60.93	58.84
Total %	53.03	53.03	53.04	53.03	53.04	53.03
Cations (Atom Mole ppm)						
Be	3.89	10.74	9.02	7.53	8.68	8.57
Na	0.00	0.00	11.18	0.00	0.00	0.00
Mg	43.12	44.57	44.03	44.25	46.31	42.55
Al	399501.79	399502.31	399476.57	399508.31	399483.49	399491.86
Ti	33.58	35.44	33.59	35.51	40.70	36.51
V	2.03	2.82	2.72	2.82	2.79	2.91
Cr	12.95	13.96	14.33	14.00	14.09	13.83
Mn	0.00	0.00	0.00	0.00	0.00	0.00
Fe	384.86	372.94	391.00	370.61	386.14	386.58
Ga	37.66	40.52	35.73	37.37	37.19	37.19
Total (Atom Mole %)	40.00	40.00	40.00	40.00	40.00	40.00
Mg-Ti	9.54	9.12	10.44	8.73	5.62	6.04
Be-Ti	-29.69	-24.71	-24.57	-27.99	-32.02	-27.94
(Be+Mg)-Ti	13.43	19.86	19.46	16.26	14.30	14.61
(Be+Mg)%	10.10	11.93	11.11	11.31	11.41	10.78
Ti%	7.21	7.64	7.03	7.76	8.45	7.70
Fe%	82.69	80.43	81.86	80.94	80.14	81.52
Mg/Ti	1.28	1.26	1.31	1.25	1.14	1.17
(Be+Mg)/Ti	1.40	1.56	1.58	1.46	1.35	1.40





BMD15	BMD15_1	BMD15_2	BMD15_3	BMD15_4	BMD15_5	BMD15_6	BMD15_7
Cations (ppm by weight)							
Be	<2.01	6.39	7.39	7.12	5.64	5.10	7.07
Na	<11.02	<9.04	<9.58	<9.33	<9.01	<9.27	<8.10
Mg	33.76	40.11	43.54	68.85	53.34	41.99	40.99
Al	529197.4	529197.44	529197.44	529197.44	529197.44	529197.44	529197.44
Ti	55.06	51.8	56.54	55.11	56.89	60.24	57.44
V	2.45	5.31	5.08	4.77	5.26	4.69	4.63
Cr	<1.67	<1.45	<1.38	<1.43	<1.50	<1.49	<1.32
Mn	<0.45	<0.38	<0.40	<0.39	<0.38	<0.39	<0.34
Fe	938.52	944.11	961.6	931.51	956.75	942.61	912.29
Ga	70.6	72.58	69.88	71.44	68.02	71.40	65.65
Total %	53.02	53.02	53.02	53.02	53.02	53.02	53.01
Cations (Atom Mole ppm)							
Be	0.00	14.44	16.70	16.09	12.75	11.53	15.98
Na	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mg	28.30	33.62	36.49	57.70	44.70	35.19	34.36
Al	399584.34	399562.22	399549.59	399540.25	399547.42	399561.11	399571.44
Ti	23.42	22.03	24.04	23.44	24.19	25.62	24.43
V	0.98	2.12	2.03	1.91	2.10	1.88	1.85
Cr	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mn	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe	342.34	344.36	350.72	339.74	348.95	343.81	332.76
Ga	37.66	40.52	35.73	37.37	37.19	37.19	37.19
Total (Atom Mole %)	40.00						
Mg-Ti	4.88	11.59	12.45	34.27	20.51	9.57	9.93
Be-Ti	-23.42	-7.59	-7.34	-7.34	-11.44	-14.09	-8.45
(Be+Mg)-Ti	4.88	26.03	29.15	50.36	33.26	21.10	25.91
(Be+Mg)%	7.18	11.60	12.43	16.89	13.34	11.23	12.35
Ti%	5.94	5.32	5.62	5.36	5.62	6.16	5.99
Fe%	86.88	83.09	81.95	77.75	81.04	82.62	81.65
Mg/Ti	1.21	1.53	1.52	2.46	1.85	1.37	1.41
(Be+Mg)/Ti	1.21	2.18	2.21	3.15	2.37	1.82	2.06