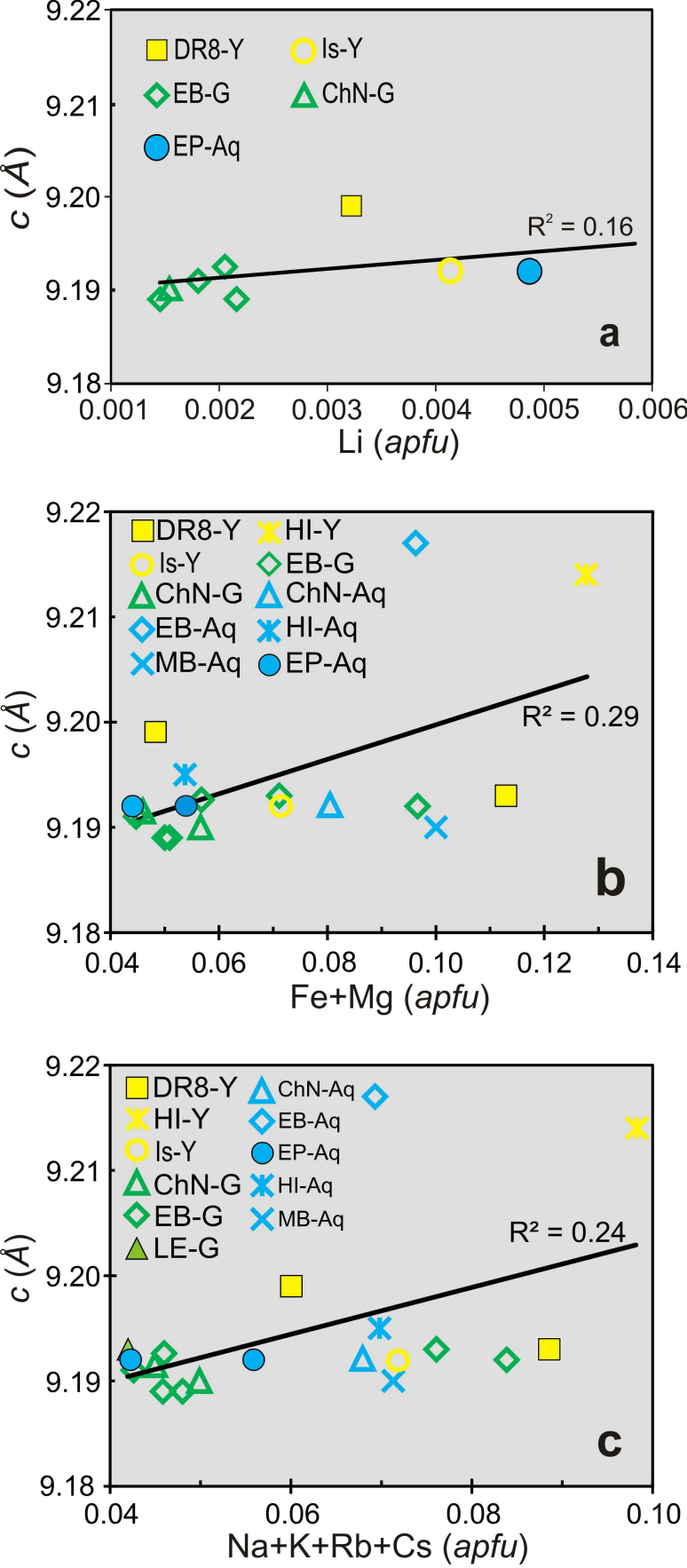


Figure A1. Sardi & Heimann, Beryl from Argentina, Canadian Mineralogist.

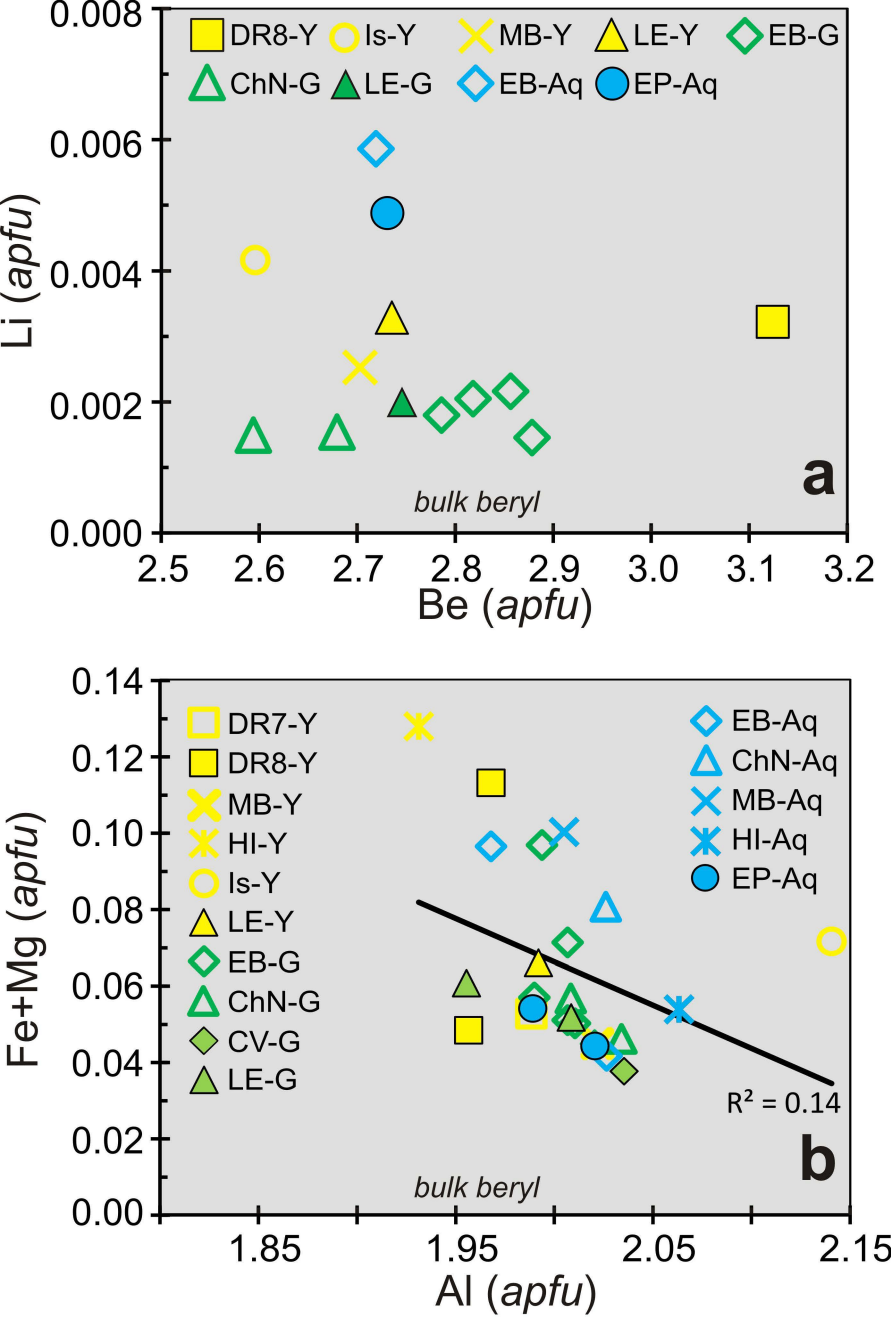


Figure A2. Sardi & Heimann, Beryl from Argentina, Canadian Mineralogist.

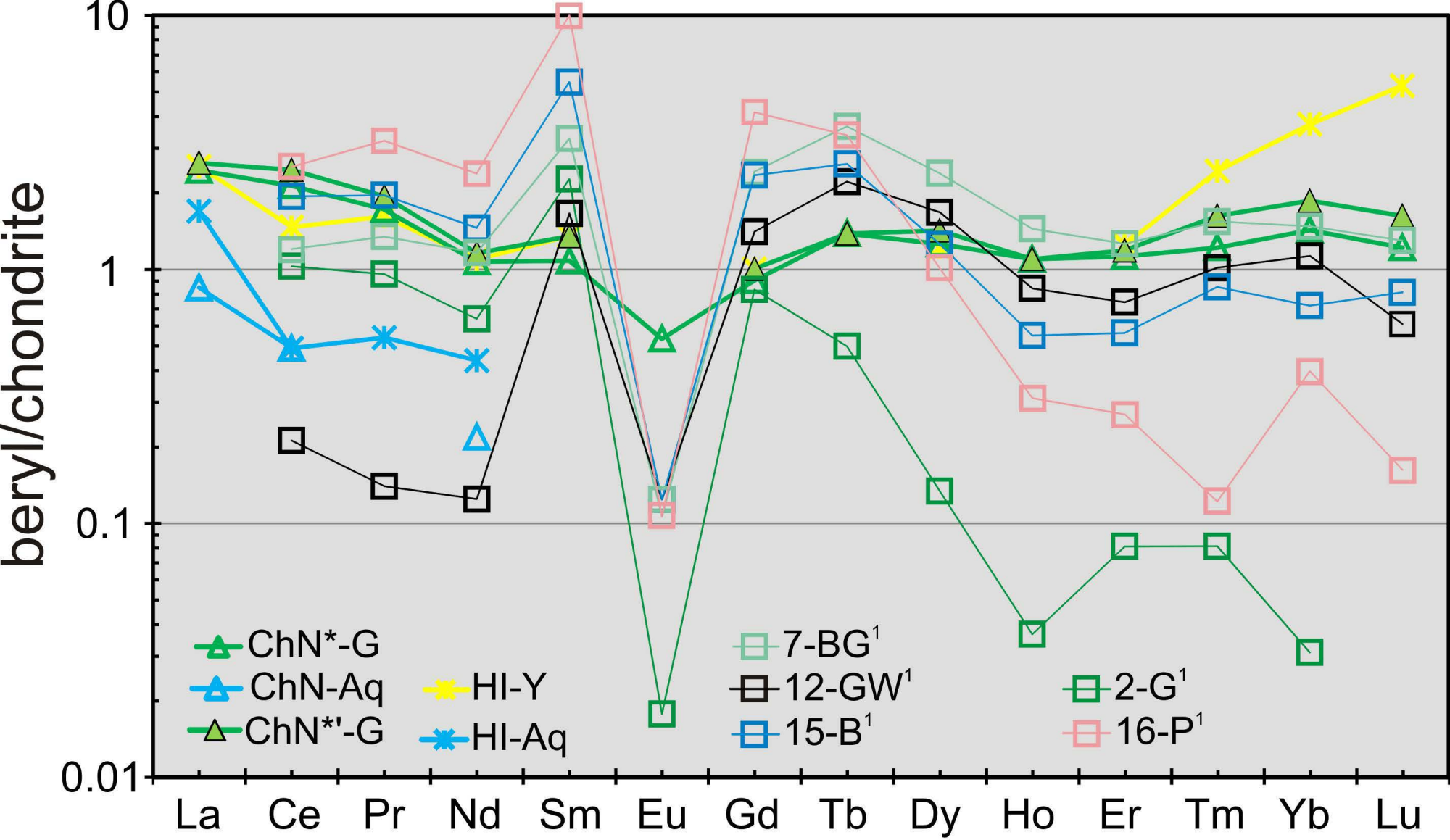


Figure A3. Sardi & Heimann, Beryl from Argentina, Canadian Mineralogist.

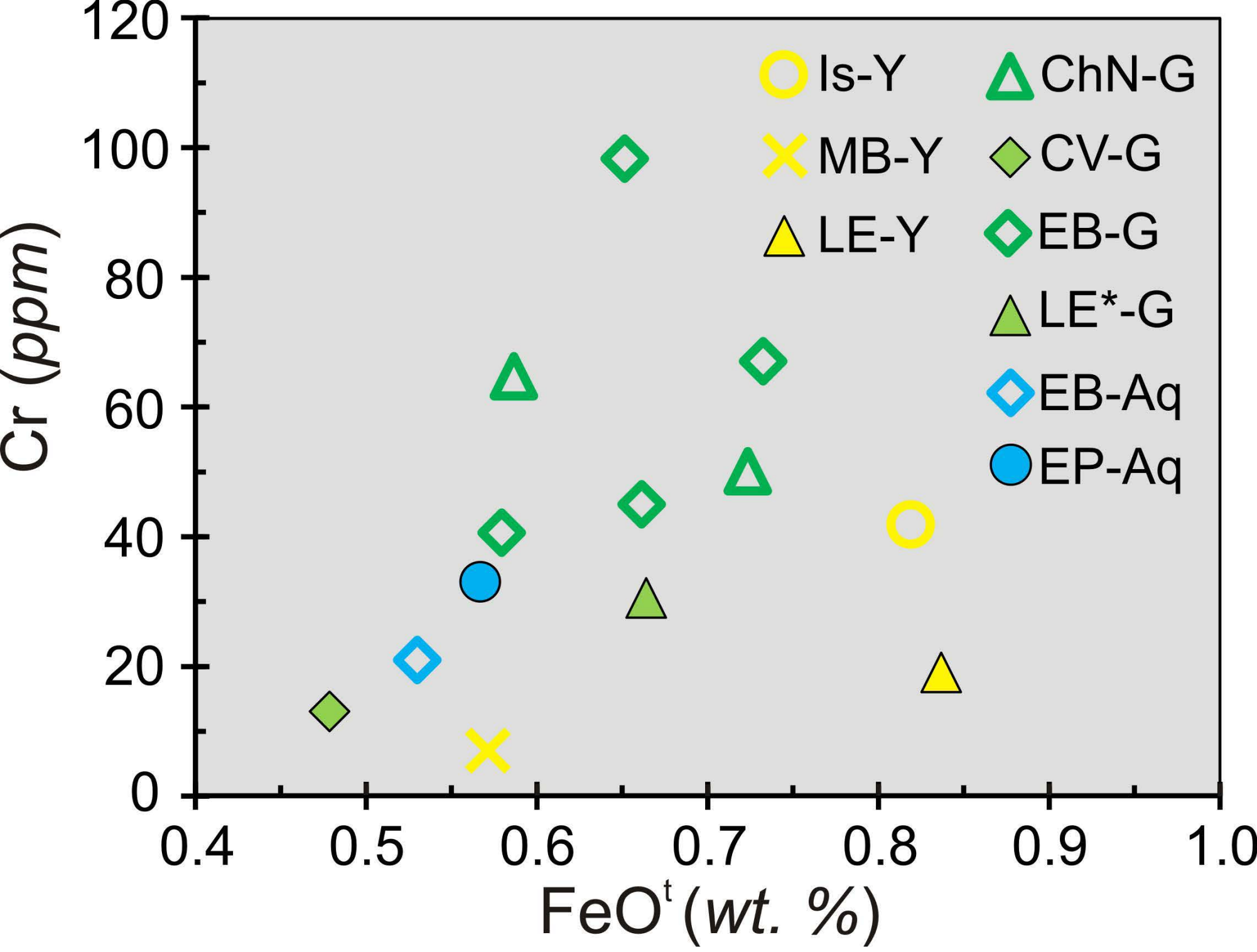


Figure A4. Sardi & Heimann, Beryl from Argentina, Canadian Mineralogist.

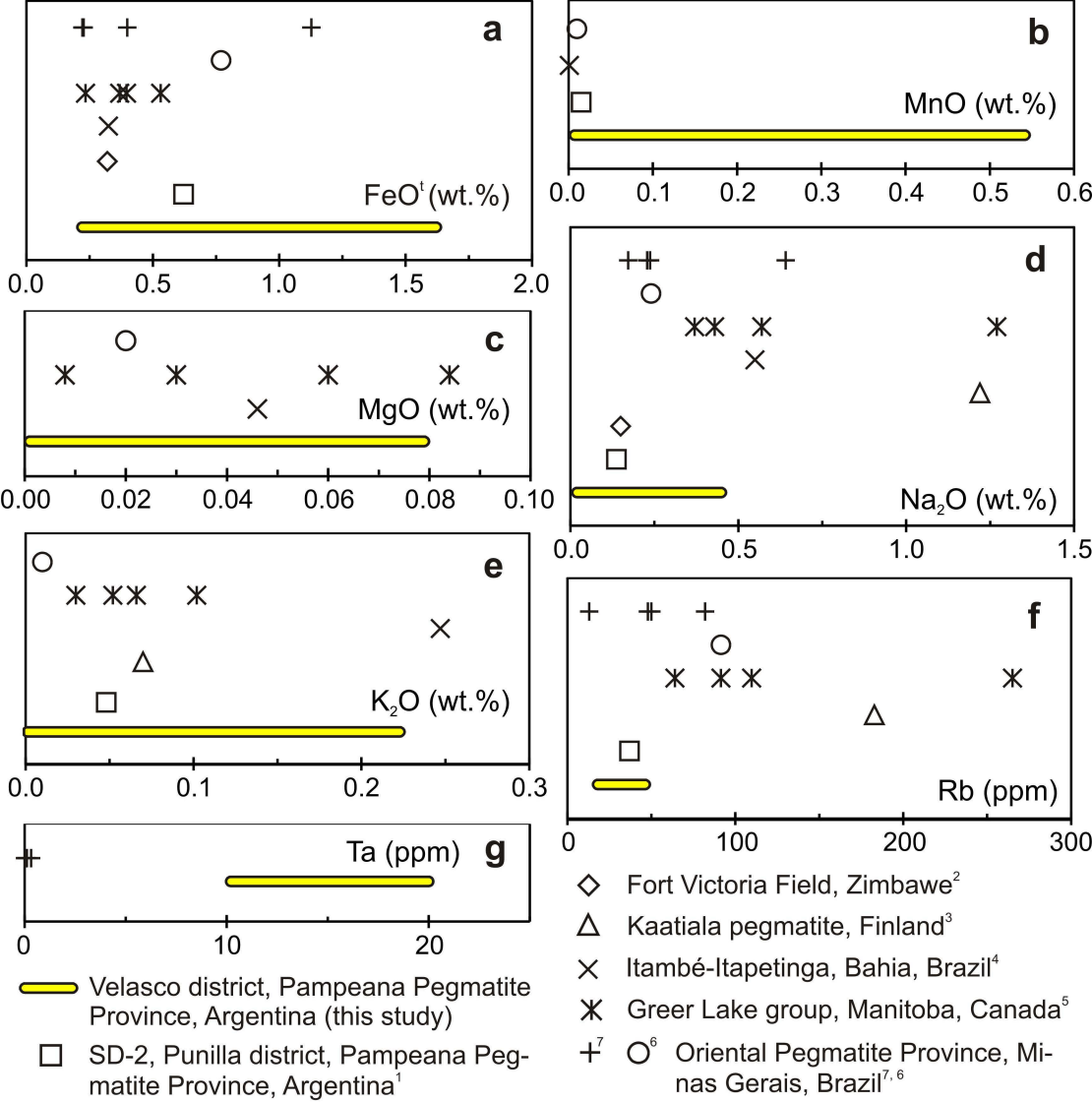


Figure A5. Sardi & Heimann, Beryl from Argentina, Canadian Mineralogist.

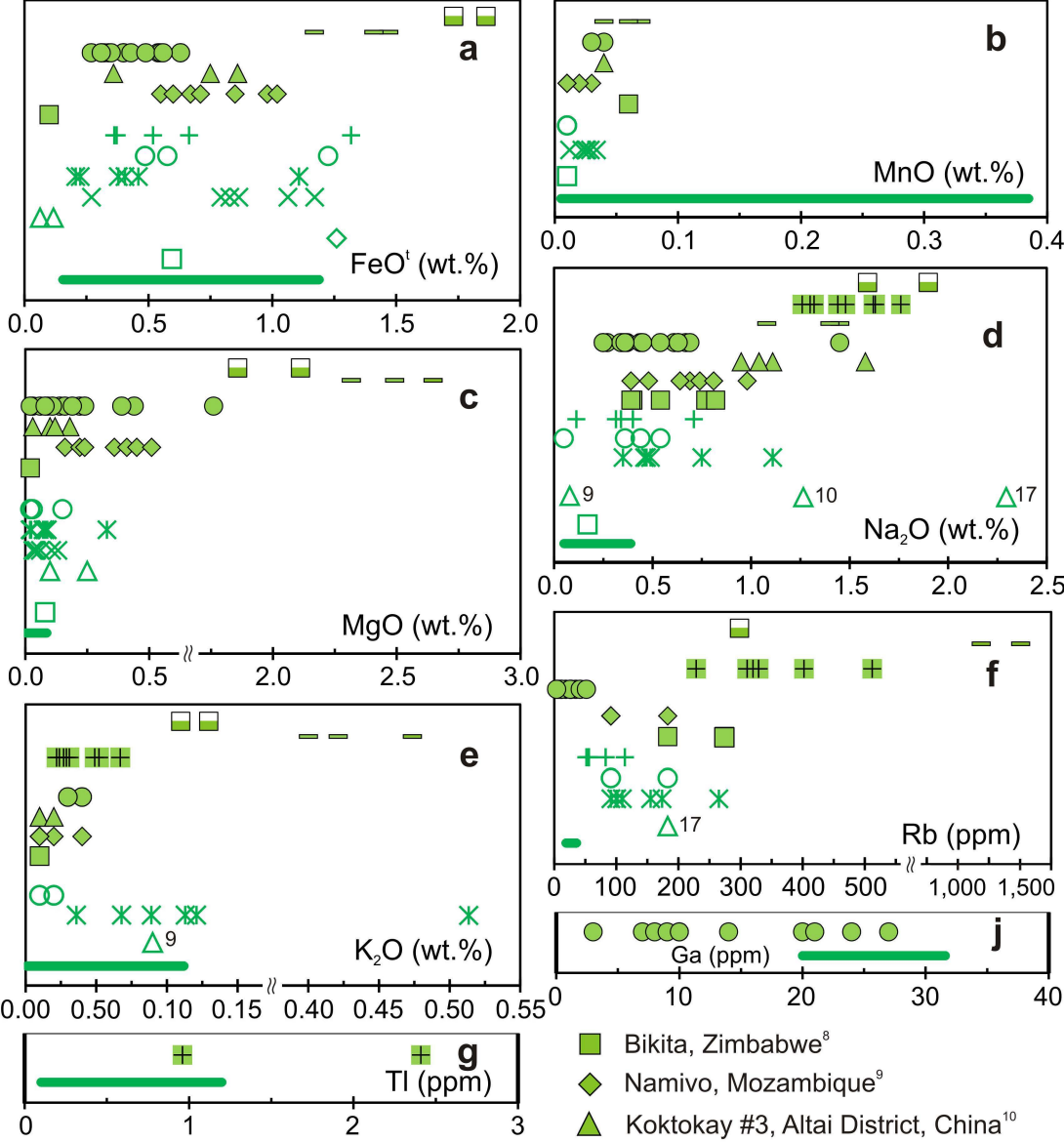


Figure A6. Sardi & Heimann, Beryl from Argentina, Canadian Mineralogist.

ELECTRONIC APPENDIX FIGURE CAPTIONS

SARDI & HEIMANN, BERYL FROM ARGENTINA, CANADIAN MINERALOGIST

Figure A1. Binary diagrams showing the relationship among beryl's unit-cell parameters and chemical composition, Velasco district, Argentina. **a**. *c* (Å) *vs.* Li (in atoms per formula unit, *apfu*). **b**. *c* (Å) *vs.* Fe+Mg (*apfu*). **c.** *c vs.* Na+K+Rb+Cs (*apfu*). *apfu* values based on 18 oxygen atoms. No correlation exists between the size of the unit cell parameter *c* and substitutions. Symbols and colors as in Table 1 and Fig. 4 in main paper.

Figure A2. Diagrams for beryl from the Velasco district showing the relationships: **a.** Li *vs.* Be (*apfu*), and **b.** Fe+Mg (*apfu*) *vs.* Al (*apfu*). Data for bulk beryl analyses. *apfu* values based on 18 oxygen atoms.

Figure A3. Chondrite-normalized REE patterns of beryl from the Velasco district and the Namivo pegmatite, Mozambique. Data for Namivo pegmatite beryl from Neiva & Neiva (2005). Normalization values after McDonough & Sun (1995). Data for 1 from Neiva & Neiva (2005)

Figure A4. Diagram showing elements that allow the separation of beryl types. Binary diagram of beryl (bulk) in terms of the chromophore element Cr (ppm) *vs.* FeO^t (wt.%). Within a single pegmatite, green beryl tends to have higher Cr contents than yellow beryl.

Figure A5. Chemistry of yellow beryl from the Velasco district compared to previously published yellow pegmatitic beryl. Sources of data as follows: 1 Colombo & Lira (2002), 2 Aurisicchio *et al.* (1988), 3 Deer *et al.* (1997), 4 De Almeida Sampaio *et al.* (1973), 5 Černý & Turnock (1975), 6 Kahwage & Mendes (2003), 7 Polli *et al.* (2006).

Figure A6. Chemistry of green beryl from the Velasco district compared to previously published green pegmatitic beryl. Sources of data for references 1 to 7 as in Fig. A5. For the rest: 8 Černý *et al.* (2003), 9 Neiva & Neiva (2005), 10 Wang *et al.* (2009), 11 Uher *et al.* (2010), 12 Novak & Filip (2010), 13 Černý & Simpson (1977), 14 Přikryl *et al.* (2014).

Figure A7. Chemistry of aquamarine beryl from the Velasco district compared to previously published aquamarine pegmatitic beryl. Sources of data from references 1 to 14 as in Fig. A5-A6. For the rest: 15 Beal & Lentz (2010), 16 Viana *et al.* (2002), 17 Schaller *et al.* (1962), 18 Bocchio *et al.* (2009).

ELECTRONIC APPENDIX TABLE HEADINGS

Table A1. Major and some trace element contents of bulk beryl in pegmatites, Velasco district.

Table A2. Trace element (except REE) contents (in ppm) of bulk beryl in pegmatites from the Velasco district.

Table A3. Rare earth element contents (ppm) of bulk beryl in pegmatites from Velasco district.

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Table A1. Major and some trace element contents of bulk beryl in pegmatites, Velasco district. Sardi & Heimann, Canadian Mineralogist.

Sample	**Yellow Beryl –Y- (*n* = 7)**							**Aquamarine Beryl –Aq- (*n* = 7)**						
	DR7-Y	**DR8-Y**	**HI-Y**	**DR8*-Y**	**Is*-Y**	**MB*-Y**	**LE*-Y**	**EB-Aq**	**ChN-Aq**	**MB-Aq**	**HI-Aq**	**EP-Aq**	**EB*-Aq**	**EP*-Aq**
SiO_2 (wt.%)	65.47	63.83	63.59	64.47	63.84	64.81	64.30	64.39	65.05	64.95	64.3	64.70	64.60	65.23
Al_2O_3	18.32	18.13	17.76	18.11	19.30	18.30	17.95	17.87	18.62	18.42	18.86	18.10	18.34	18.42
FeO^t	0.59	1.43	1.62	0.59	0.82	0.57	0.84	1.20	0.94	1.24	0.69	0.62	0.53	0.57
MnO	0.011	0.015	0.027	0.107	0.109	0.018	0.542	0.014	0.010	0.011	0.014	0.008	0.044	0.004
MgO	0.05	0.02	0.02	0.02	0.05	-	-	0.02	0.06	0.03	-	0.04	-	-
CaO	0.08	0.03	0.03	0.05	0.19	0.17	-	0.02	0.02	0.02	0.02	0.03	0.33	-
BeO	12.83	13.87	14.07	12.74	11.48	12.00	12.09	12.61	12.58	12.64	12.76	12.66	12.07	12.21
Li_2O	--	--	--	0.009	0.011	0.007	0.009	--	--	--	--	--	0.016	0.013
Na_2O	0.29	0.42	0.45	0.29	0.24	0.20	0.19	0.33	0.33	0.34	0.33	0.28	0.22	0.22
K_2O	0.04	0.09	0.13	0.05	0.22	0.02	-	0.06	0.07	0.08	0.07	0.02	-	-
Rb_2O	0.004	0.004	0.004	0.004	0.005	0.002	0.002	0.003	0.002	0.002	0.002	0.003	0.002	0.004
Cs_2O	0.062	0.069	0.057	0.061	0.035	-	-	0.054	0.013	0.022	0.051	0.069	-	0.078
LOI	1.31	1.45	1.75	1.71	1.50	1.56	1.64	1.45	1.57	1.83	1.76	1.25	1.68	1.43
Total	*99.06*	*99.36*	*99.51*	*98.21*	*97.80*	*97.66*	*97.56*	*98.02*	*99.27*	*99.59*	*98.86*	*97.78*	*97.83*	*98.18*
apfu based on 18 oxygen atoms														
Si (T_1)	6.032	5.881	5.870	5.913	6.010	6.078	6.057	6.019	6.008	6.001	5.971	6.035	6.059	6.074
Be	2.838	3.068	3.119	3.123	2.595	2.702	2.735	2.829	2.790	2.803	2.845	2.835	2.719	2.730
Li	--	--	--	0.003	0.004	0.003	0.003	--	--	--	--	--	0.006	0.005
ΣT_2	2.838	3.068	3.119	3.126	2.599	2.705	2.738	2.829	2.790	2.803	2.845	2.835	2.725	2.735
Al	1.988	1.968	1.931	1.957	2.141	2.022	1.992	1.968	2.026	2.005	2.063	1.989	2.027	2.021
Fe	0.046	0.110	0.125	0.046	0.064	0.045	0.066	0.094	0.072	0.096	0.054	0.048	0.042	0.044
Mn	0.001	0.001	0.002	0.008	0.009	0.001	0.043	0.001	0.001	0.001	0.001	0.001	0.003	-
Mg	0.007	0.003	0.003	0.003	0.007	-	-	0.003	0.008	0.004	-	0.006	-	-
Σ*O*	2.042	2.082	2.061	2.014	2.221	2.068	2.101	2.066	2.107	2.106	2.118	2.044	2.072	2.065
Ca	0.008	0.003	0.003	0.005	0.019	0.017	-	0.002	0.002	0.002	0.002	0.003	0.033	-
Na	0.052	0.075	0.080	0.052	0.044	0.037	0.035	0.060	0.059	0.061	0.059	0.051	0.039	0.039
Rb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
K	0.005	0.011	0.015	0.006	0.026	0.003	-	0.007	0.008	0.009	0.008	0.002	-	-
Cs	0.002	0.003	0.002	0.002	0.001	-	-	0.002	0.001	0.001	0.002	0.003	-	0.003
Σ*Ch*	0.067	0.092	0.100	0.062	0.090	0.057	0.035	0.071	0.070	0.073	0.071	0.059	0.072	0.042

Table A1 continued.

Sample	Green Beryl –G- (*n* = 11)										
	EB-G	**EB'-G**	**LE-G**	**EB*-G**	**EB*'-G**	**EB*''-G**	**EB*'''-G**	**ChN*-G**	**ChN*'-G**	**CV*-G**	**LE*-G**
SiO_2 (wt.%)	65.76	63.38	64.33	65.04	65.44	65.29	65.32	64.94	65.33	64.97	65.28
Al_2O_3	18.90	18.17	17.71	18.21	18.57	18.49	18.57	18.20	18.40	18.41	18.33
FeO^t	0.91	1.19	0.72	0.73	0.58	0.66	0.65	0.72	0.59	0.49	0.66
MnO	0.011	0.014	0.007	0.265	0.066	0.005	0.006	0.385	0.013	0.023	0.018
MgO	0.03	0.03	0.09	-	-	-	-	-	-	0.13	-
CaO	0.03	0.03	0.09	-	-	-	-	-	-	0.13	-
BeO	13.81	13.47	12.83	12.65	12.56	12.91	13.04	11.91	11.51	11.78	12.29
Li_2O	--	--	--	0.005	0.005	0.006	0.004	0.004	0.004	--	0.005
Na_2O	0.38	0.39	0.22	0.24	0.23	0.26	0.24	0.27	0.24	0.24	0.18
K_2O	0.07	0.10	0.01	-	-	-	-	-	-	-	-
Rb_2O	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002
Cs_2O	0.039	0.036	0.017	0.054	0.037	0.055	0.060	0.018	0.014	-	-
LOI	1.62	1.26	1.69	1.44	1.46	1.44	1.39	1.46	1.47	1.60	1.38
Total	*101.56*	*98.07*	*97.72*	*98.64*	*98.95*	*99.12*	*99.28*	*97.91*	*97.77*	*97.78*	*98.15*
apfu based on 18 oxygen atoms											
Si (T_1)	5.927	5.903	6.029	6.033	6.044	6.015	6.003	6.083	6.130	6.097	6.072
Be	2.989	3.014	2.888	2.818	2.786	2.856	2.878	2.679	2.594	2.655	2.745
Li	--	--	--	0.002	0.002	0.002	0.001	0.002	0.001	--	0.002
ΣT_2	2.989	3.014	2.888	2.820	2.788	2.858	2.879	2.681	2.595	2.655	2.747
Al	2.007	1.994	1.955	1.990	2.021	2.007	2.011	2.008	2.034	2.035	2.009
Fe	0.068	0.092	0.056	0.057	0.045	0.050	0.051	0.057	0.046	0.038	0.052
Mn	0.001	0.001	0.001	0.021	0.005	-	-	0.031	0.001	0.002	0.001
Mg	0.003	0.004	0.004	-	-	-	-	-	-	-	-
Σ*O*	2.079	2.091	2.016	2.068	2.071	2.057	2.062	2.096	2.081	2.075	2.062
Ca	0.003	0.003	0.009	-	-	-	-	-	-	0.013	-
Na	0.066	0.070	0.040	0.044	0.041	0.046	0.043	0.049	0.044	0.044	0.032
Rb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
K	0.008	0.012	0.001	-	-	-	-	-	-	-	-
Cs	0.001	0.001	0.001	0.002	0.001	0.002	0.002	0.001	0.001	-	-
Σ*Ch*	0.081	0.086	0.051	0.046	0.042	0.048	0.045	0.050	0.045	0.057	0.032

Analysis by ICP-MS, ICP-AES (Be), and AAS (Li); ' Additional sample; - Not detected; -- Not determined; * Analysis at IGME (Spain), rest in ActLabs (Canada).

Table A2. Trace element (except REE) contents (in ppm) of bulk beryl in pegmatites from the Velasco district. Heimann& Sardi, CanMin.

	Sample	Sc	Li	V	Ba	Sr	Y	Cr	Co	Zn	Ga	Ge	Rb	Nb	Cs	Ta	Tl	Th
Yellow beryl	**DR7-Y**	2.0	--	8.0	5.0	4.0	-	-	274	210	27	2.0	40	7.0	589	20.0	-	0.4
	DR8-Y	3.0	--	7.0	-	-	-	-	323	260	28	1.0	45	6.0	648	18.6	0.2	0.6
	HI-Y	2.0	--	7.0	-	-	-	-	266	160	31	1.0	33	10.0	535	16.8	0.2	6.0
	DR8*-Y	-	40.6	6.0	4.0	-	2.0	-	53	290	25	1.0	41	7.0	577	10.3	0.2	1.0
	Is*-Y	0.4	49.9	4.8	24.4	6.1	14.5	41.9	77	240	22	1.6	46	16.6	326	10.2	0.5	2.5
	MB*-Y	3.0	31.1	2.0	1.0	1.0	4.0	7.0	217	70	-	-	22	8.0	-	-	-	-
	LE*-Y	6.0	40.3	7.0	2.0	1.0	5.0	19.0	235	51	-	-	18	26.0	-	-	-	-
	Min.	*0.4*	*31.1*	*2.0*	*1.0*	*1.0*	*2.0*	*7.0*	*53*	*51*	*22*	*1.0*	*18*	*6.0*	*326*	*10.2*	*0.2*	*0.4*
	Max.	*6.0*	*49.9*	*8.0*	*24.4*	*6.1*	*14.5*	*41.9*	*323*	*290*	*31*	*2.0*	*46*	*26.0*	*648*	*20.0*	*0.5*	*6.0*
	Avg.	*2.7*	*40.5*	*6.0*	*7.3*	*3.0*	*6.4*	*22.6*	*206*	*183*	*27*	*1.3*	*35.1*	*11.5*	*535*	*15.2*	*0.3*	*2.1*
Green beryl	**EB-G**	2.0	--	6.0	-	-	-	-	65	180	20		26	2.0	370	4.8	0.1	0.1
	EB'-G	3.0	--	6.0	5.0	-	2.0	-	143	130	22	1.0	26	2.0	336	7.8	-	0.4
	LE-G	21.0	--	23.0	-	2.0	9.0	-	373	90	28	1.0	23	11.0	164	30.5	-	2.5
	EB*-G	1.5	25.5	3.3	-	1.1	2.5	67.1	42	142	23	1.5	30	4.0	505	4.8	1.0	-
	EB*'-G	1.2	22.5	3.5	-	-	8.0	40.6	50	176	20	1.4	25	3.9	352	6.7	0.9	1.9
	EB*''-G	1.4	27.1	3.0	-	-	-	45.0	78	132	22	2.0	23	2.3	519	4.7	0.4	-
	EB*'''-G	2.1	18.3	3.5	-	-	-	98.4	54	124	23	2.0	29	1.3	571	4.3	1.2	-
	ChN*-G	8.3	19.0	-	5.3	1.2	3.3	50.1	68	184	23	1.4	25	4.4	167	3.9	0.4	1.5
	ChN*'-G	7.3	18.4	1.9	6.3	-	2.5	64.8	45	197	22	1.3	30	1.3	131	6.3	0.8	-
	CV*-G	1.0	--	1.0	1.0	-	14.0	13.0	202	126	-	-	19	7.0	-	-	-	-
	LE*-G	9.2	24.7	16.3	2.0	3.2	10.4	30.5	81	124	25	2.1	20	-	155	31.6	0.4	12.6
	Min.	*1.2*	*18.3*	*1.0*	*1.0*	*1.1*	*2.0*	*13.0*	*42*	*90*	*20*	*1.0*	*19*	*1.3*	*131*	*3.9*	*0.1*	*0.1*
	Max.	*21.0*	*27.1*	*23.0*	*6.3*	*3.2*	*10.4*	*98.4*	*373*	*197*	*28*	*2.1*	*30*	*11.0*	*571*	*31.6*	*1.2*	*12.6*
	Avg.	*5.3*	*22.2*	*6.8*	*3.9*	*1.9*	*6.5*	*51.2*	*109*	*146*	*23*	*1.5*	*25*	*3.9*	*327*	*10.5*	*0.7*	*3.2*
Aquamarine	**EB-Aq**	4.0	--	7.0	-	-	-	-	244	120	24	1.0	31	3.0	514	13.9	-	0.1
	ChN-Aq	10.0	--	-	-	-	-	-	68	190	22	1.0	21	1.0	120	5.0	-	-
	MB-Aq	5.0	--	-	-	-	-	-	196	130	26	1.0	23	3.0	207	12.0	-	0.2
	HI-Aq	-	--	-	3.0	-	-	-	119	340	23	1.0	20	2.0	478	6.2	0.1	0.1
	EP-Aq	3.0	--	8.0	-	-	-	-	323	110	19	1.0	24	8.0	650	26.9	-	-
	EB*-Aq	1.0	72.2	2.0	1.0	1.0	11.0	21.0	400	63	-	-	17	8.0	-	-	-	-
	EP*-Aq	-	60.6	2.4	-	-	-	33.0	154	145	19	18.5	34	3.7	730	31.6	0.4	12.6
	Min.	*1.0*	*60.6*	*2.0*	*1.0*	*1.0*	*11.0*	*21.0*	*68*	*63*	*19*	*1.0*	*17*	*1.0*	*120.0*	*5.0*	*0.1*	*0.1*
	Max.	*10.0*	*72.2*	*8.0*	*3.0*	*1.0*	*11.0*	*33.0*	*400*	*340*	*26*	*18.5*	*34*	*8.0*	*730*	*31.6*	*0.4*	*12.6*
	Avg.	*4.6*	*66.4*	*4.9*	*2.0*	*1.0*	*11.0*	*27.0*	*215*	*157*	*22*	*3.9*	*24*	*4.1*	*450*	*15.9*	*0.3*	*3.3*

Notes: Analysis by ICP-MS, ICP-AES (Be), and AAS (Li); ' Additional sample; - Not detected; -- Not determined; * Determined at IGME (Spain), rest at ActLabs (Canada).

Table A3. Rare earth element content (ppm) of bulk beryl in pegmatites from the Velasco district, Argentina. Sardi & Heimann, CanMin.

	Sample	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Total
Yellow beryl	**DR7-Y**	0.8	0.8	0.14	0.5	0.1	-	0.1	-	0.2	-	-	-	0.10	-	2.74
	DR8-Y	0.6	0.5	0.08	0.3	-	-	0.2	-	0.2	-	0.10	-	0.20	-	2.18
	HI-Y	0.6	0.9	0.15	0.5	0.2	-	0.2	-	0.3	-	0.20	0.06	0.60	0.13	3.84
	DR8*-Y	0.1	0.5	-	0.2	0.1	-	0.2	-	0.5	-	0.30	-	0.50	0.09	2.49
	Min.	*0.1*	*0.5*	*0.08*	*0.2*	*0.1*	-	*0.1*	-	*0.2*	-	*0.10*	*0.06*	*0.10*	*0.09*	*2.18*
	Max.	*0.8*	*0.9*	*0.15*	*0.5*	*0.2*	-	*0.2*	-	*0.5*	-	*0.30*	*0.06*	*0.60*	*0.13*	*3.84*
	Avg.	*0.5*	*0.7*	*0.12*	*0.4*	*0.1*	-	*0.2*	-	*0.3*	-	*0.22*	*0.06*	*0.35*	*0.11*	*2.81*
Green beryl	**EB-G**	0.2	0.3	-	0.2	-	-	-	-	0.1	-	-	-	-	-	0.8
	EB'-G	0.2	0.5	0.06	0.3	-	-	0.2	-	0.2	-	0.20	-	0.30	0.05	2.01
	EB*-G	0.3	0.7	0.09	0.3	0.1	0.01	0.2	0.05	0.3	0.06	0.21	0.04	0.33	0.05	2.72
	EB*'-G	0.1	0.7	0.06	0.3	0.2	0.01	0.4	0.12	1.0	0.21	0.74	0.16	1.45	0.22	5.70
	EB*''-G	0.1	0.2	0.02	0.03	0.02	-	0.02	0.01	0.1	0.01	0.04	0.01	0.06	0.01	0.53
	EB*'''-G	0.2	0.3	0.04	0.1	0.04	-	0.05	0.01	0.1	0.02	0.05	0.01	0.06	0.01	0.94
	ChN*-G	0.6	1.3	0.16	0.5	0.2	0.03	0.2	0.05	0.3	0.06	0.18	0.03	0.23	0.03	3.80
	ChN*'-G	0.6	1.5	0.18	0.53	0.2	-	0.2	0.05	0.4	0.06	0.19	0.04	0.3	0.04	4.27
	Min.	*0.1*	*0.2*	*0.02*	*0.03*	*0.02*	*0.01*	*0.02*	*0.01*	*0.5*	*0.01*	*0.04*	*0.01*	*0.06*	*0.01*	*0.53*
	Max.	*0.6*	*1.5*	*0.18*	*0.5*	*0.2*	*0.03*	*0.4*	*0.12*	*1.0*	*0.21*	*0.74*	*0.16*	*1.45*	*0.22*	*5.70*
	Avg.	*0.3*	*0.7*	*0.09*	*0.3*	*0.13*	*0.02*	*0.2*	*0.05*	*0.3*	*0.07*	*0.23*	*0.05*	*0.39*	*0.06*	*2. 60*
Aquamarine	**EB-Aq**	0.2	0.4	0.06	0.1	-	-	-	-	-	-	-	-	-	-	0.76
	ChN-Aq	0.2	0.3		0.1	-	-	-	-	-	-	-	-	-	-	0.6
	MB-Aq	0.3	0.5	0.06	0.3	-	-	-	-	-	-	-	-	-	-	1.16
	HI-Aq	0.4	0.3	0.05	0.2	-	-	-	-	-	-	-	-	-	-	0.95
	EP-Aq	0.2	0.3	-	-	-	-	-	-	-	-	-	-	-	-	0.5
	EP*-Aq	0.1	0.2	0.02	0.02	0.02	-	0.02	-	0.02	-	0.01	-	0.02	-	0.44
	Min.	*0.1*	*0.2*	*0.02*	*0.02*	*0.02*	-	*0.02*	-	*0.02*	-	*0.01*	-	*0.02*	-	*0.44*
	Max.	*0.4*	*0.5*	*0.06*	*0.3*	*0.02*	-	*0.02*	-	*0.02*	-	*0.01*	-	*0.02*	-	*1.16*
	Avg.	*0.2*	*0.3*	*0.05*	*0.1*	*0.02*	-	*0.02*	-	*0.02*	-	*0.01*	-	*0.02*	-	*0.74*

Note: Obtained by ICP-MS. The different number of significant figures for some elements is due to analyses made in different laboratories. Normalizing values from McDonough & Sun (1995).