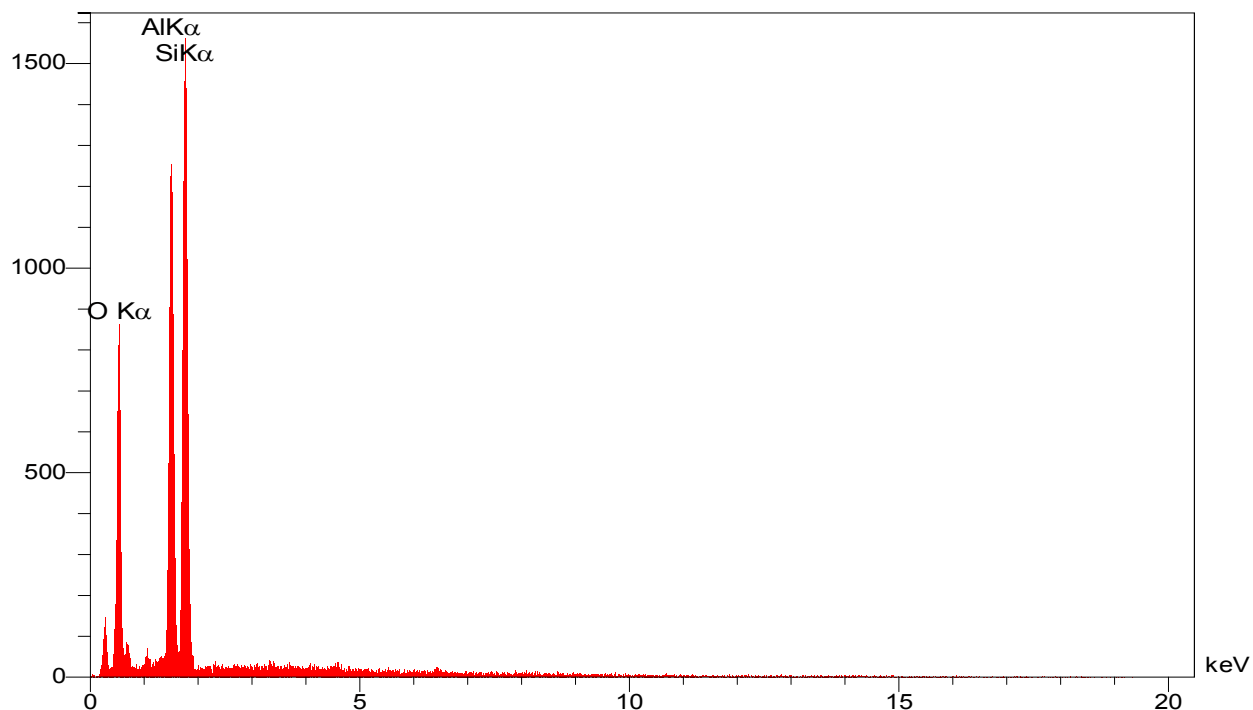


IDFix report

User Brandon Guttery
Facility OU EMPL
File ElbK 30 pt1-wash-beta eucr.doc
Date 11/2/2009 7:33 AM

ElbK 30 pt1-wash-beta eucr



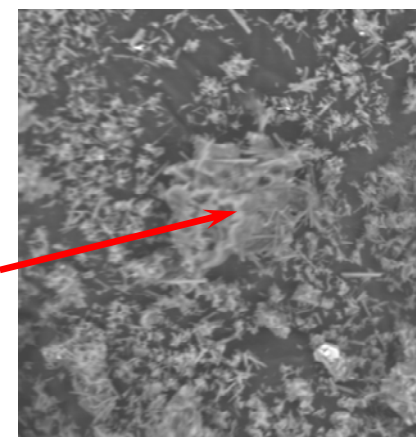
Acquisition Parameters

Accelerating voltage (kV)	20.0	Correction Method	PAP
Beam current (nA)	5.000	Analysis Type	StdLess
Magnification	5000	Number of Oxygens	4

Analysis

Measures & Results

Elt	Line	Int	W%	A%	Formula	Ox%	Cat#
O			50.90	64.16		0.00	0.00
Al	Ka	393.6	20.15	15.06	Al2O3	38.08	0.94
Si	Ka	487.4	28.95	20.78	SiO2	61.92	1.30
			100.00	100.00		100.00	2.23

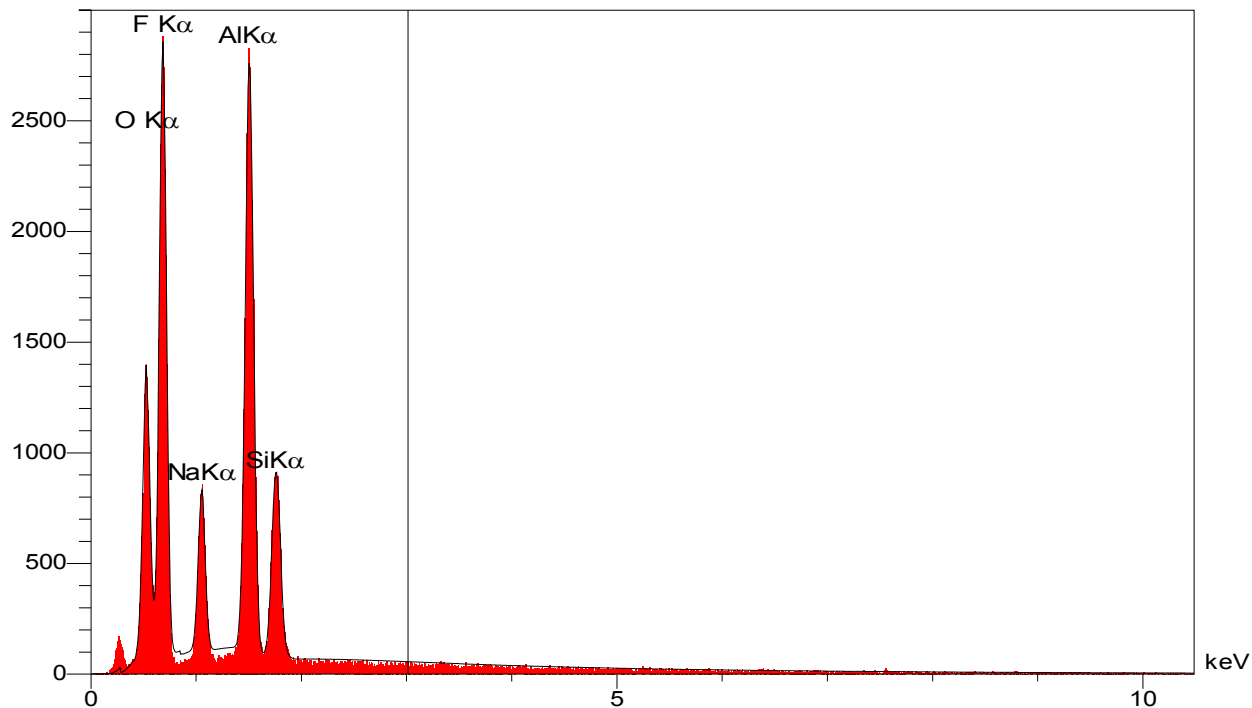


158 x 158 μ m BSEI
 image file: ElbK 30 pt1-wash-beta eucr
 mag 500.tif

IDFix report

User Brandon Guttery
Facility OU EMPL
File ElbK 35 intergrowth of cyrolite and AIF rich phase.doc
Date 11/11/2011 11:16 AM

ElbK 35 intergrowth of cyrolite and AIF rich phase



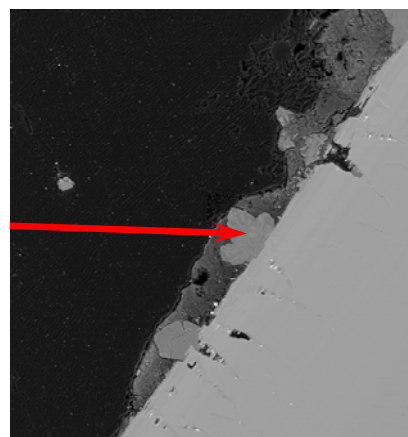
Acquisition Parameters

Accelerating voltage (kV)	20.0	Correction Method	PAP
Beam current (nA)	5.000	Analysis Type	StdLess
Magnification	5000	Number of Oxygens	0

Analysis

Measures & Results

Elt	Line	Int	W%	A%	Formula	Ox%	Cat#
O	Ka	347.7	20.16	25.35		0.00	0.00
F	Ka	749.8	45.05	47.72		0.00	0.00
Na	Ka	210.5	9.02	7.90		0.00	0.00
Al	Ka	869.9	19.33	14.42		0.00	0.00
Si	Ka	277.5	6.44	4.61		0.00	0.00
			100.00	100.00		0.00	0.00

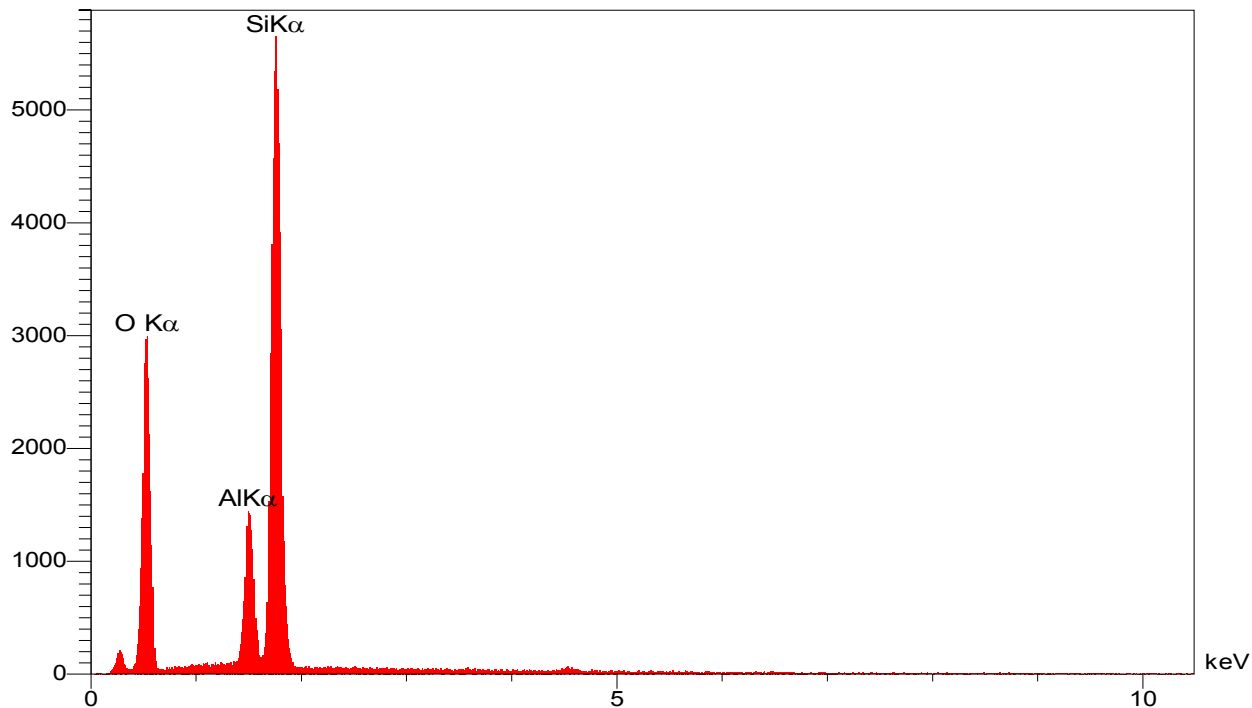


790 x 790 μm BSEI
 image file: ElbK 35 cryolite tur
 overgrowth 100.tif

Energy-Dispersive X-Ray Analysis Report

User **Brandon Guttery**
Facility **OU EMPL**
File **Elbk 49-petalite.doc**
Date **2/16/2012 9:02 AM**

Elbk 49-petalite



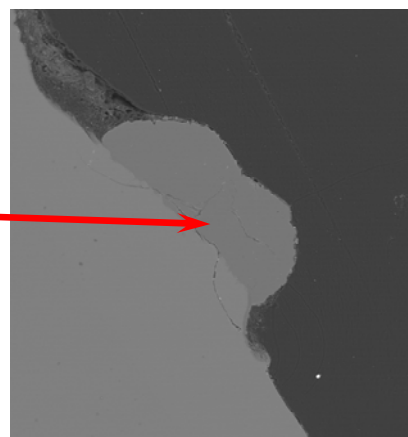
Acquisition Parameters

Accelerating voltage (kV)	15.0	Correction Method	PAP
Beam current (nA)	19.700	Analysis Type	StdLess
Magnification	6000	Number of Oxygens	19

Analysis

Measures & Results

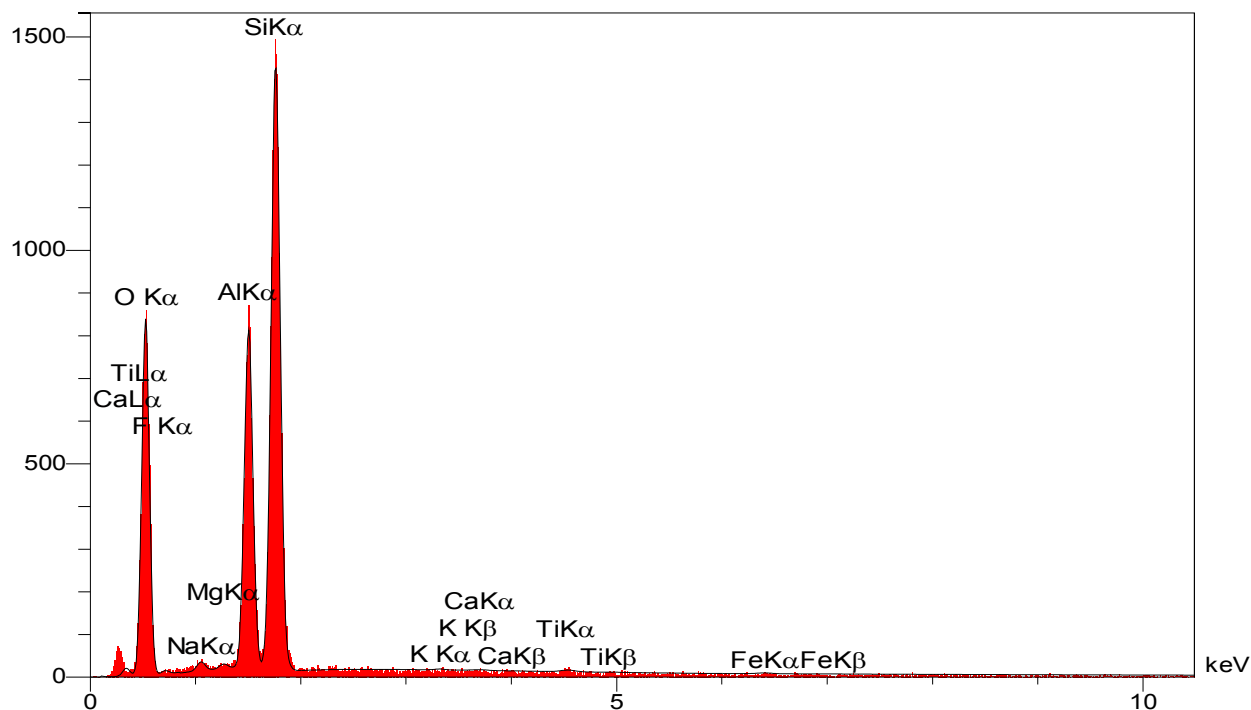
Elt	Line	Int	W%	A%	Formula	Ox%	Cat#
O			52.16	65.50		0.00	0.00
Al	Ka	479.0	9.38	6.99	Al2O3	17.72	2.03
Si	Ka	1877.5	38.46	27.51	SiO2	82.28	7.98
			100.00	100.00		100.00	10.01



790 x 790 μm BSEI
image file: Elbk 49 petalite mag 100.tif

IDFix report

User Brandon Guttery
Facility OU EMPL
File elbk17 pt8-wash-betaspod.doc
Date 11/2/2009 7:33 AM



elbk17 pt8-wash-betaspod

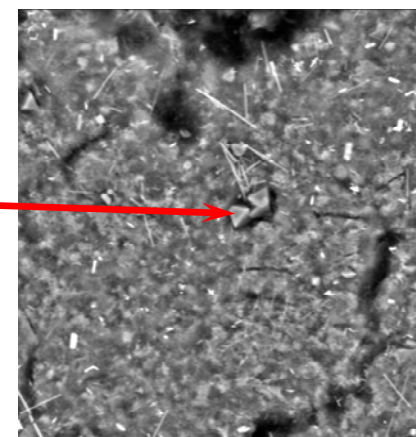
Acquisition Parameters

Accelerating voltage (kV)	20.0	Correction Method	PAP
Beam current (nA)	9.890	Analysis Type	StdLess
Magnification	200008	Number of Oxygens	12

Analysis

Measures & Results

Elt	Line	Int	W%	A%	Formula	Ox%	Cat#
O			50.89	64.23		0.00	0.00
Na	Ka	8.7	0.79	0.69	Na ₂ O	1.06	0.13
Mg	Ka	4.3	0.25	0.21	MgO	0.41	0.04
Al	Ka	335.7	15.80	11.83	Al ₂ O ₃	29.86	2.21
Si	Ka	616.5	31.73	22.82	SiO ₂	67.88	4.26
K	Ka	1.1	0.06	0.03	K ₂ O	0.08	0.01
Ca	Ka	1.2	0.08	0.04	CaO	0.11	0.01
Ti	Ka	2.7	0.22	0.09	TiO ₂	0.37	0.02
Fe	Ka	1.4	0.18	0.07	FeO	0.23	0.01
			100.00	100.00		100.00	6.68

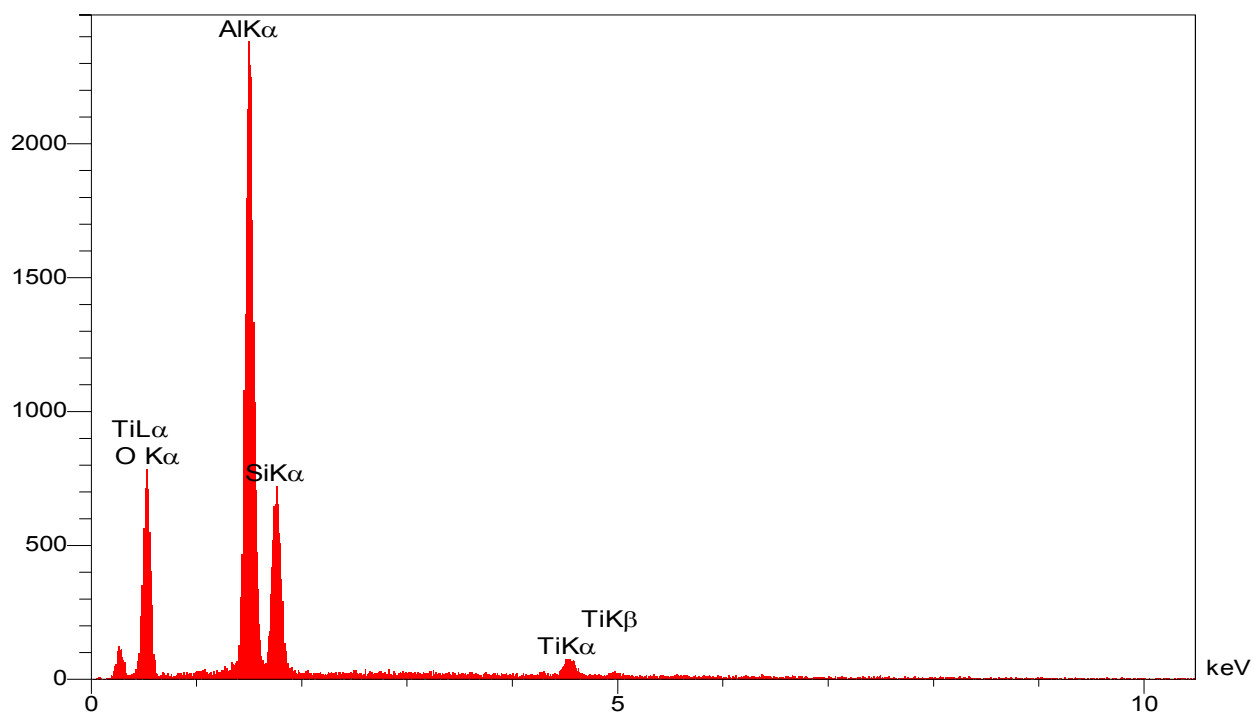


158 x 158 μ m BSEI
 image file: elbk17 pt8-wash-betaspod-
 mag500.tif

IDFix report

User Brandon Guttery
Facility OU EMPL
File elbk22 pt22-wash-mullite.doc
Date 4/12/2011 12:32 PM

elbk22 pt22-wash-mullite



Acquisition Parameters

Accelerating voltage (kV)	20.0	Correction Method	PAP
Beam current (nA)	9.900	Analysis Type	StdLess
Magnification	100000	Number of Oxygens	5

Analysis

Measures & Results

Elt	Line	Int	W%	A%	Formula	Ox%	Cat#
O			48.74	62.25		0.00	0.00
Al	Ka	953.1	35.00	26.51	Al ₂ O ₃	66.13	2.13
Si	Ka	283.8	14.31	10.41	SiO ₂	30.62	0.84
Ti	Ka	31.0	1.95	0.83	TiO ₂	3.25	0.07
			100.00	100.00		100.00	3.03

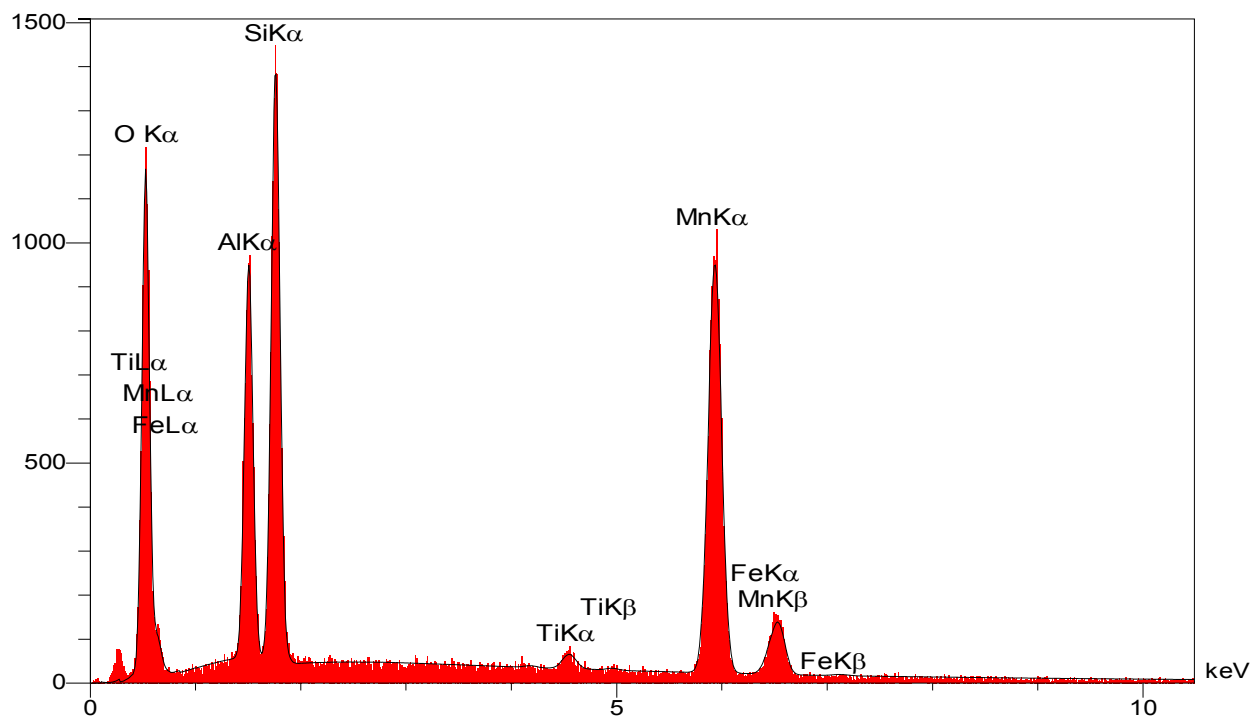


395 x 395 μ m BSEI
 image file: elbk22 pt22-wash-mullite-mag200.tif

IDFix report

User Brandon Guttery
Facility OU EMPL
File ELBK25-Grt1.doc
Date 4/19/2011 12:47 PM

ELBK-25: Garnet?



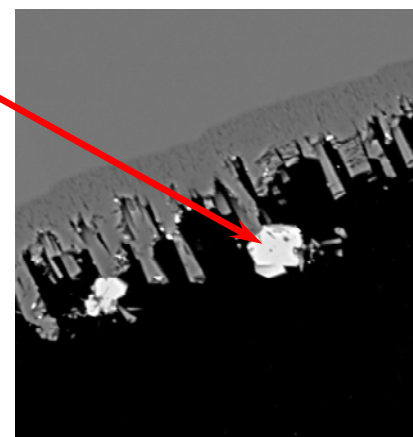
Acquisition Parameters

Accelerating voltage (kV)	20.0	Correction Method	PAP
Beam current (nA)	9.940	Analysis Type	StdLess
Magnification	200000	Number of Oxygens	12

Analysis

Measures & Results

Elt	Line	Int	W%	A%	Formula	Ox%	Cat#
O			38.22	59.76		0.00	0.00
Al	Ka	300.3	11.15	10.33	Al ₂ O ₃	21.06	2.08
Si	Ka	450.4	15.66	13.95	SiO ₂	33.50	2.80
Ti	Ka	17.6	0.77	0.40	TiO ₂	1.29	0.08
Mn	Ka	482.6	32.77	14.92	MnO	42.32	3.00
Fe	Ka	18.6	1.43	0.64	FeO	1.83	0.13
			100.00	100.00		100.00	8.08



158 x 158 μ m

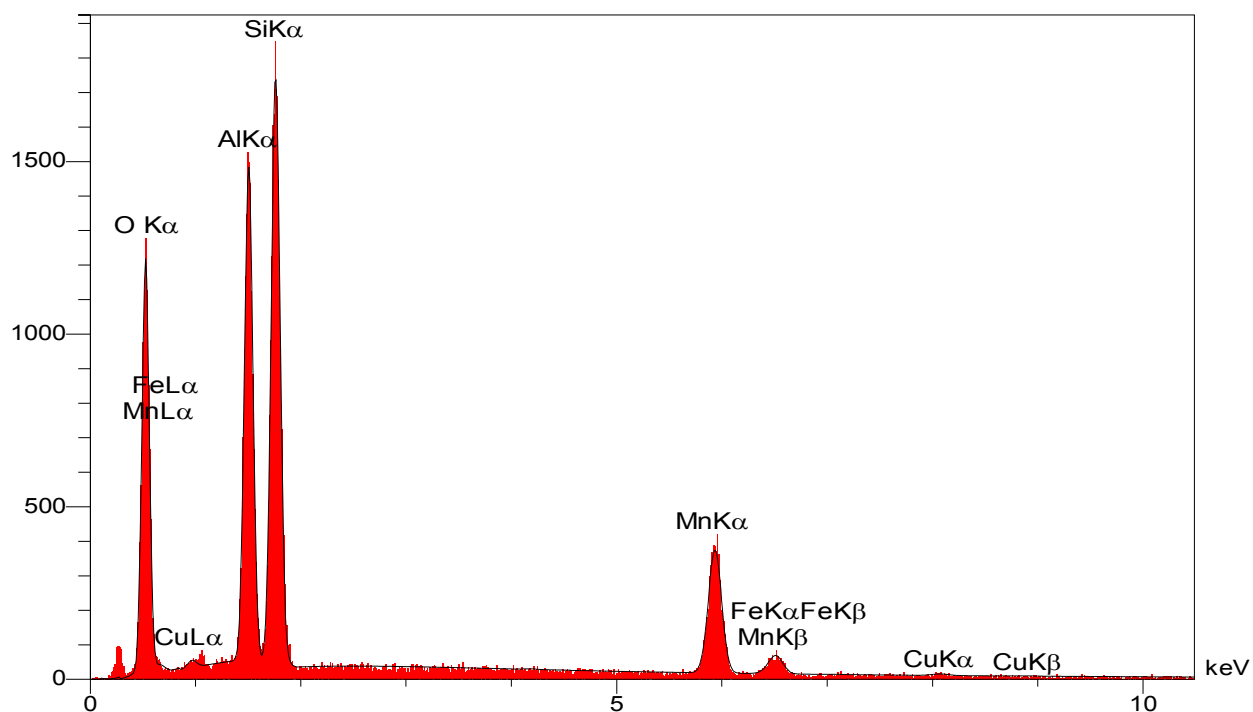
BSEI

image file: ELBK-25 embed-Grt-500x.t

IDFix report

User Brandon Guttery
Facility OU EMPL
File ELBK25-MnCrd1.doc
Date 4/19/2011 12:37 PM

ELBK-25: Mn-Cordierite?



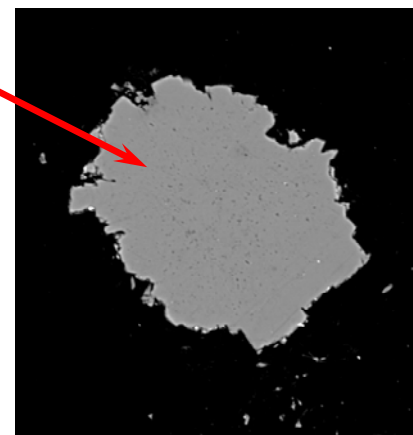
Acquisition Parameters

Accelerating voltage (kV)	20.0	Correction Method	PAP
Beam current (nA)	5.000	Analysis Type	StdLess
Magnification	5000	Number of Oxygens	18

Analysis

Measures & Results

Elt	Line	Int	W%	A%	Formula	Ox%	Cat#
O			45.31	62.31		0.00	0.00
Al	Ka	488.8	17.47	14.25	Al ₂ O ₃	33.01	4.12
Si	Ka	587.0	22.34	17.50	SiO ₂	47.79	5.06
Mn	Ka	184.0	14.21	5.69	MnO	18.35	1.64
Fe	Ka	2.9	0.25	0.10	FeO	0.32	0.03
Cu	Ka	2.8	0.43	0.15	CuO	0.53	0.04
			100.00	100.00		100.00	10.89

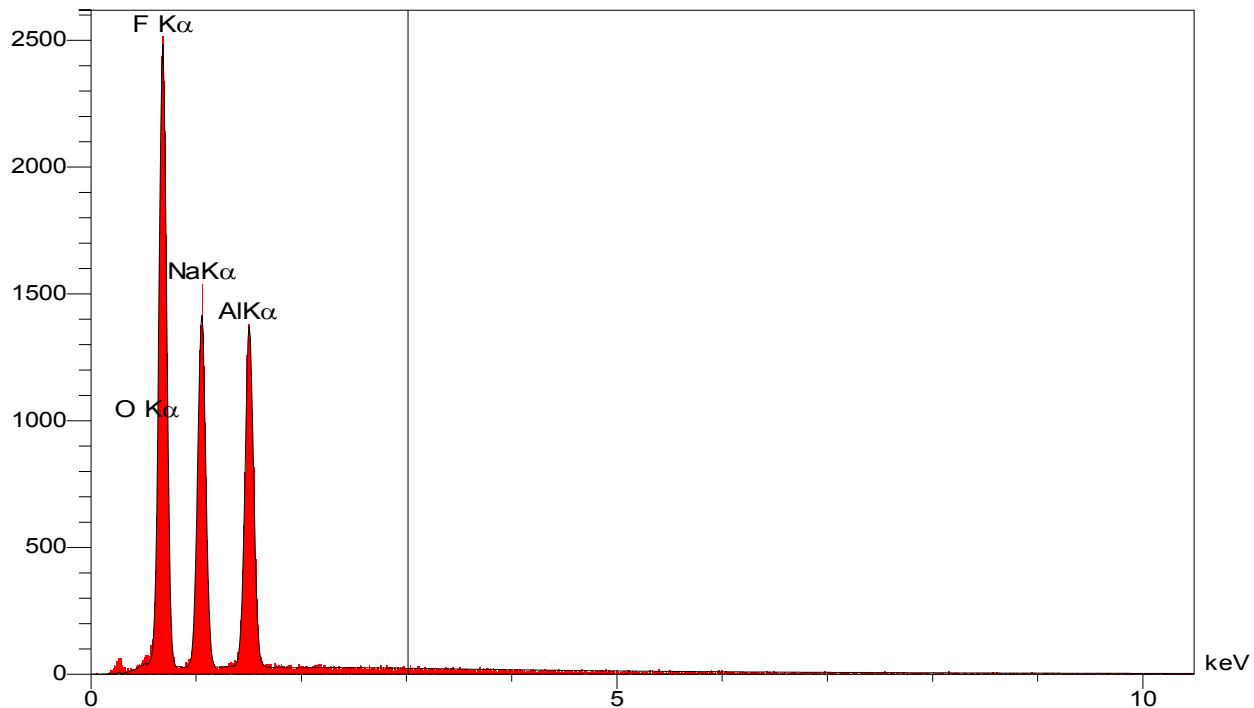


263 x 263 μm BSEI
 image file: ELBK-25 embed-Mn-Crd-300x.tif

IDFix report

User Brandon Guttery
Facility OU EMPL
File Elbk33 cryolite overgrowth on tur.doc
Date 11/11/2011 10:24 AM

Elbk33 cryolite overgrowth on tur



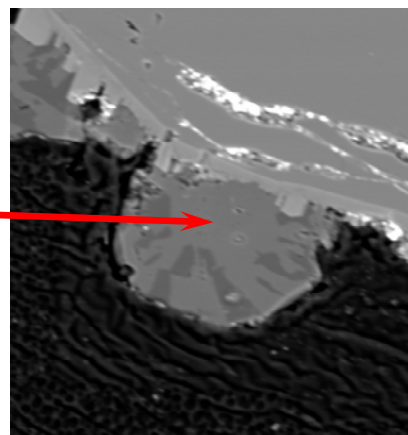
Acquisition Parameters

Accelerating voltage (kV)	20.0	Correction Method	PAP
Beam current (nA)	5.000	Analysis Type	StdLess
Magnification	5000	Number of Oxygens	0

Analysis

Measures & Results

Elt	Line	Int	W%	A%	Formula	Ox%	Cat#
F	Ka	1507.0	43.50	49.86		0.00	0.00
Na	Ka	983.4	32.36	30.66		0.00	0.00
Al	Ka	947.3	24.14	19.48		0.00	0.00
			100.00	100.00		0.00	0.00



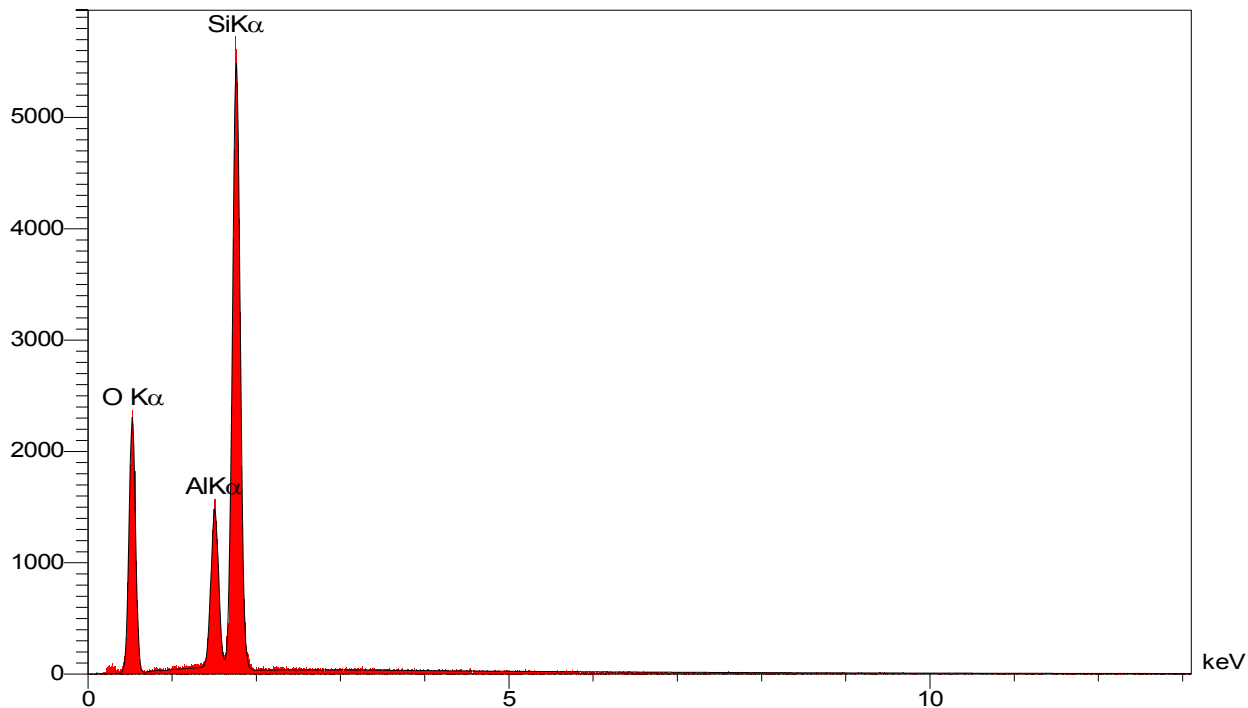
158 x 158 μm BSEI

image file: Elbk 33 cryolite overgrowth
mag500.tif

Energy-Dispersive X-Ray Analysis Report

User David London
Facility OU EMPL
File ELBK55-Pet1.doc
Date 3/8/2013 11:46 AM

ELBK-55: Pet/B-Spd



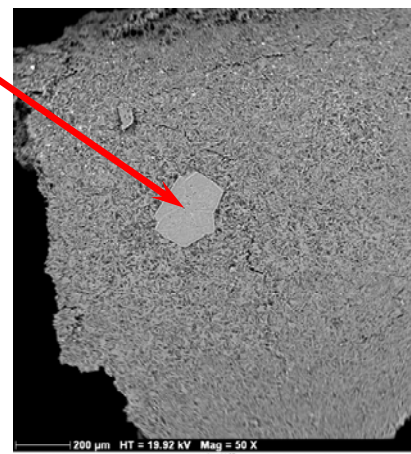
Acquisition Parameters

Accelerating voltage (kV)	19.9	Correction Method	PAP
Beam current (nA)	20.050	Analysis Type	StdLess
Magnification	50000	Number of Oxygens	9

Analysis

Measures & Results

Elt	Line	Int	W%	A%	Formula	Ox%	Cat#
O			52.09	65.43		0.00	0.00
Al	Ka	529.3	9.96	7.42	Al2O3	18.83	1.02
Si	Ka	1969.7	37.94	27.15	SiO2	81.17	3.73
			100.00	100.00		100.00	4.76

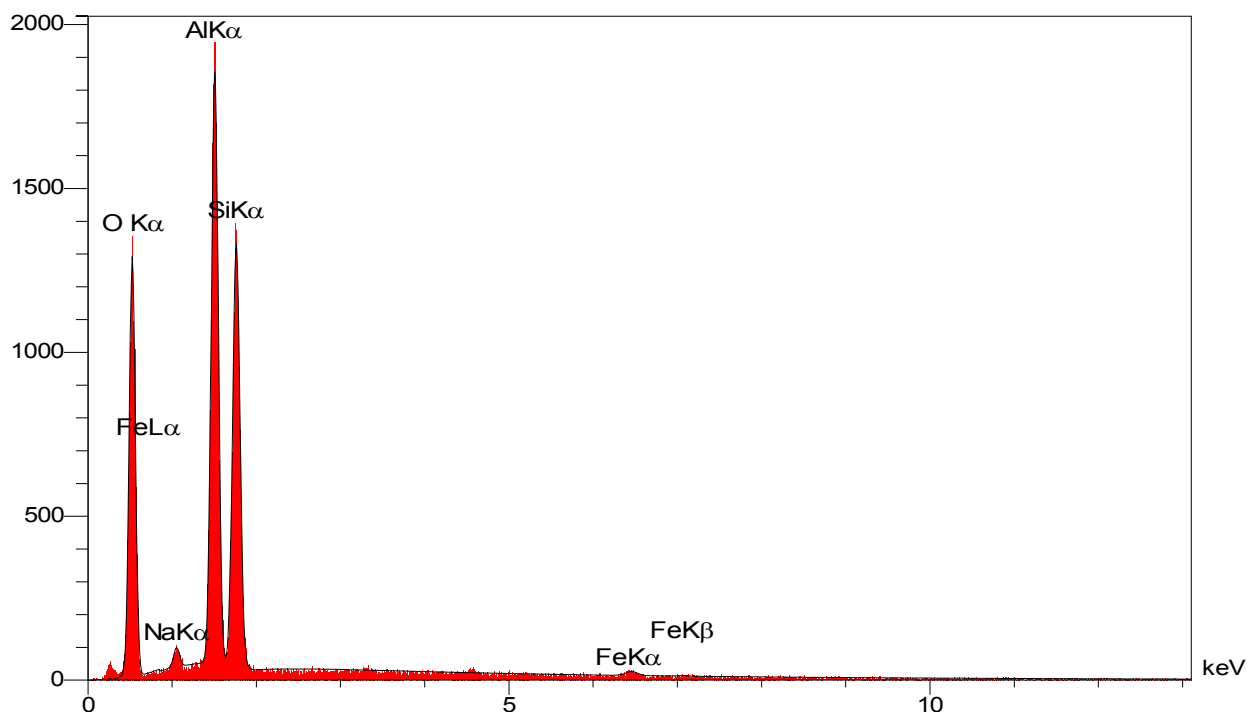


1580 x 1580 μm BSEI
 image file: ELBK-55 1-50x.tif

Energy-Dispersive X-Ray Analysis Report

User David London
Facility OU EMPL
File ELBK55-fgTur1.doc
Date 3/8/2013 11:56 AM

ELBK-55: Fibrous Tourmaline



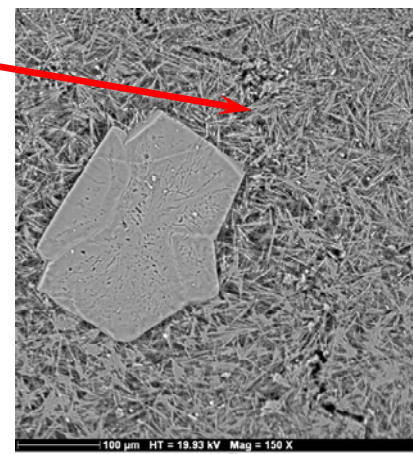
Acquisition Parameters

Accelerating voltage (kV)	19.9	Correction Method	PAP
Beam current (nA)	10.050	Analysis Type	StdLess
Magnification	50000	Number of Oxygens	49

Analysis

Measures & Results

Elt	Line	Int	W%	A%	Formula	Ox%	Cat#
O			49.41	62.71		0.00	0.00
Na	Ka	19.1	1.46	1.29	Na ₂ O	1.96	1.01
Al	Ka	636.2	25.65	19.30	Al ₂ O ₃	48.46	15.08
Si	Ka	459.2	22.71	16.42	SiO ₂	48.57	12.83
Fe	Ka	7.0	0.78	0.28	FeO	1.00	0.22
			100.00	100.00		100.00	29.14

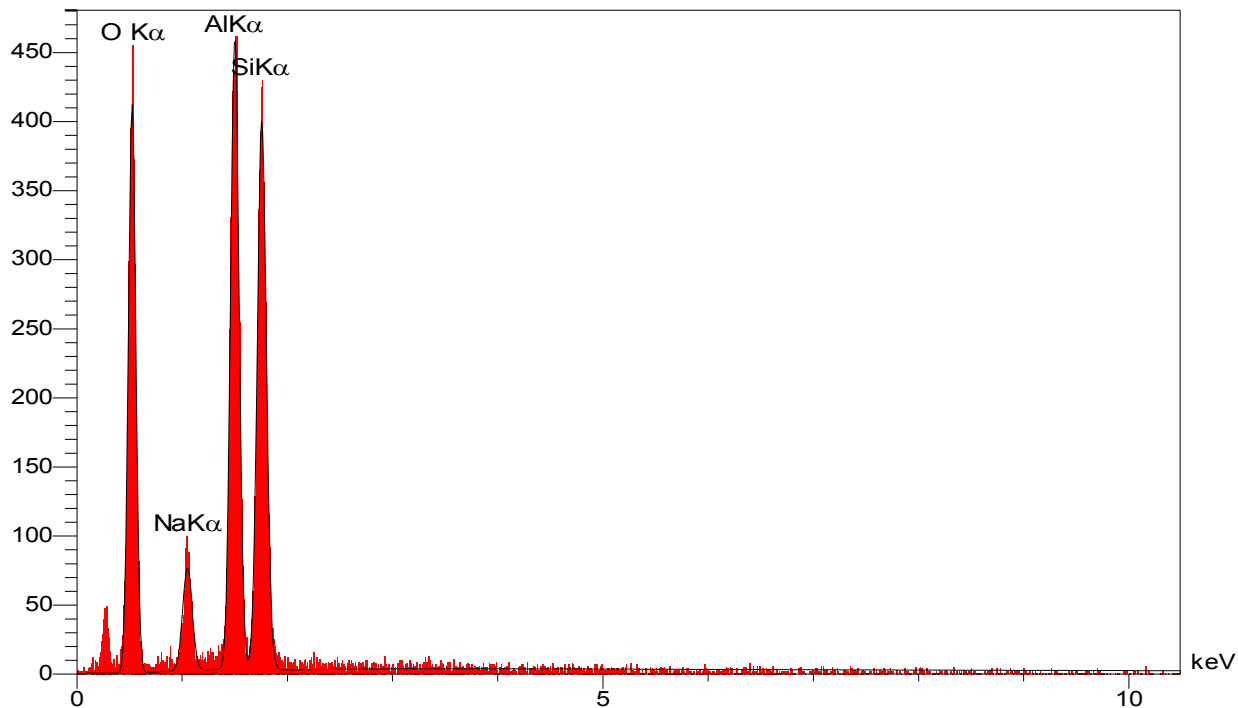


527 x 527 μm BSEI
 image file: ELBK-55 4-150x.tif

IDFix report

User David London
Facility OU EMPL
File ELBK10-Parag1.doc
Date 3/2/2010 10:59 AM

ELBK-10; paragonite



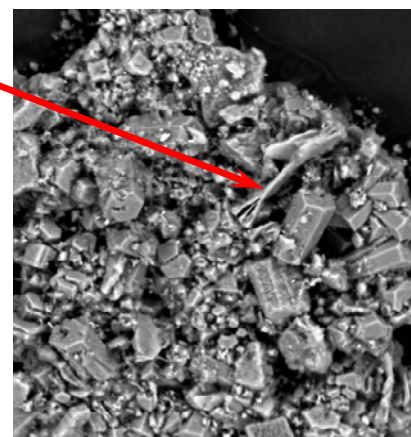
Acquisition Parameters

Accelerating voltage (kV)	20.0	Correction Method	PAP
Beam current (nA)	5.010	Analysis Type	StdLess
Magnification	50000	Number of Oxygens	11

Analysis

Measures & Results

Elt	Line	Int	W%	A%	Formula	Ox%	Cat#
O			48.08	60.82		0.00	0.00
Na	Ka	30.5	7.01	6.17	Na2O	9.45	1.12
Al	Ka	157.2	22.09	16.57	Al2O3	41.73	3.00
Si	Ka	139.7	22.82	16.44	SiO2	48.82	2.97
			100.00	100.00		100.00	7.09



263 x 263 μm BSEI
 image file: ELBK10-4-300x.tif

