

Spectrum Label: Spectrum 2

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 70003

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.74 | 916836 |
|  |  |  |  |
| Optimization data : Manganese K series |  |  |  |
|  | Energy (eV) | Resn. (eV) | Area |
| Strobe : | .1 | 53.38 | 1150729 |
| Optimization element : | 5892.6 | 129.89 | 573533 |

Spectrum processing :

No peaks omitted

Processing option : Oxygen by stoichiometry (Normalised)

Number of iterations = 1

Standard :

Na Albite 1-Jun-1999 12:00 AM

Mg MgO 1-Jun-1999 12:00 AM

Al Al2O3 1-Jun-1999 12:00 AM

Si SiO2 1-Jun-1999 12:00 AM

P GaP 1-Jun-1999 12:00 AM

S FeS2 1-Jun-1999 12:00 AM

Cl KCl 1-Jun-1999 12:00 AM

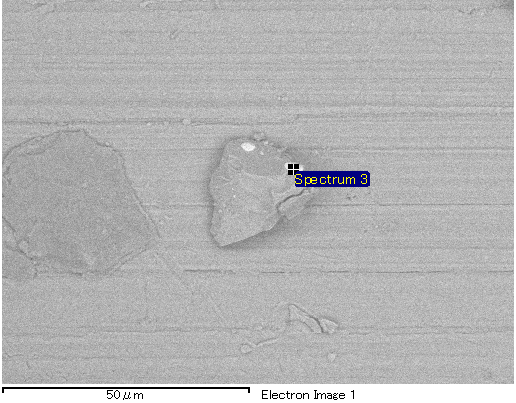
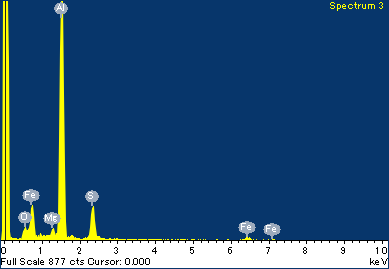
K MAD-10 Feldspar 1-Jun-1999 12:00 AM

Ca Wollastonite 1-Jun-1999 12:00 AM

Fe Fe 1-Jun-1999 12:00 AM

Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.08 | 0.07 | 0.11 | Na2O |  |
| Mg K | 5.12 | 4.48 | 8.49 | MgO |  |
| Al K | 36.84 | 29.06 | 69.61 | Al2O3 |  |
| Si K | 5.36 | 4.06 | 11.47 | SiO2 |  |
| P K | -0.12 | -0.08 | -0.28 | P2O5 |  |
| S K | 0.08 | 0.05 | 0.19 | SO3 |  |
| Cl K | 0.23 | 0.14 | 0.00 |  |  |
| K K | -0.09 | -0.05 | -0.11 | K2O |  |
| Ca K | -0.07 | -0.04 | -0.10 | CaO |  |
| Fe L | 9.13 | 3.48 | 11.75 | FeO |  |
| Ni L | -1.07 | -0.39 | -1.36 | NiO |  |
| O | 44.51 | 59.21 |  |  |  |
| Totals | 100.00 |  |  |  |  |



Spectrum Label: Spectrum 3

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 68773

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.81 | 916495 |
|  |  |  |  |
| Optimization data : Manganese K series |  |  |  |
|  | Energy (eV) | Resn. (eV) | Area |
| Strobe : | .1 | 53.38 | 1150729 |
| Optimization element : | 5892.6 | 129.89 | 573533 |

Spectrum processing :

No peaks omitted

Processing option : Oxygen by stoichiometry (Normalised)

Number of iterations = 1

Standard :

Na Albite 1-Jun-1999 12:00 AM

Mg MgO 1-Jun-1999 12:00 AM

Al Al2O3 1-Jun-1999 12:00 AM

Si SiO2 1-Jun-1999 12:00 AM

P GaP 1-Jun-1999 12:00 AM

S FeS2 1-Jun-1999 12:00 AM

Cl KCl 1-Jun-1999 12:00 AM

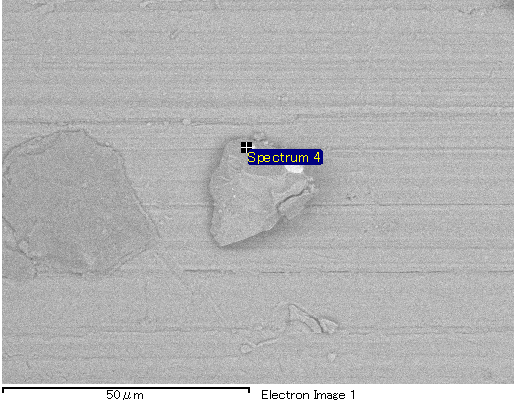
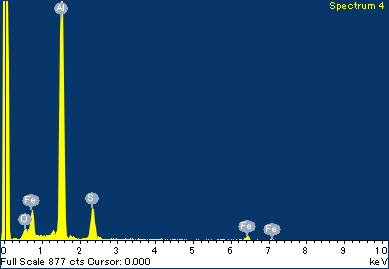
K MAD-10 Feldspar 1-Jun-1999 12:00 AM

Ca Wollastonite 1-Jun-1999 12:00 AM

Fe Fe 1-Jun-1999 12:00 AM

Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.00 | 0.00 | 0.01 | Na2O |  |
| Mg K | 0.56 | 0.55 | 0.94 | MgO |  |
| Al K | 27.25 | 23.98 | 51.48 | Al2O3 |  |
| Si K | 0.33 | 0.28 | 0.70 | SiO2 |  |
| P K | -0.26 | -0.20 | -0.59 | P2O5 |  |
| S K | 5.68 | 4.21 | 14.18 | SO3 |  |
| Cl K | -0.01 | -0.01 | 0.00 |  |  |
| K K | 0.10 | 0.06 | 0.12 | K2O |  |
| Ca K | -0.13 | -0.08 | -0.18 | CaO |  |
| Fe L | 26.44 | 11.24 | 34.02 | FeO |  |
| Ni L | -0.51 | -0.21 | -0.65 | NiO |  |
| O | 40.55 | 60.18 |  |  |  |
| Totals | 100.00 |  |  |  |  |



Spectrum Label: Spectrum 4

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 69002

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.75 | 916009 |
|  |  |  |  |
| Optimization data : Manganese K series |  |  |  |
|  | Energy (eV) | Resn. (eV) | Area |
| Strobe : | .1 | 53.38 | 1150729 |
| Optimization element : | 5892.6 | 129.89 | 573533 |

Spectrum processing :

No peaks omitted

Processing option : Oxygen by stoichiometry (Normalised)

Number of iterations = 1

Standard :

Na Albite 1-Jun-1999 12:00 AM

Mg MgO 1-Jun-1999 12:00 AM

Al Al2O3 1-Jun-1999 12:00 AM

Si SiO2 1-Jun-1999 12:00 AM

P GaP 1-Jun-1999 12:00 AM

S FeS2 1-Jun-1999 12:00 AM

Cl KCl 1-Jun-1999 12:00 AM

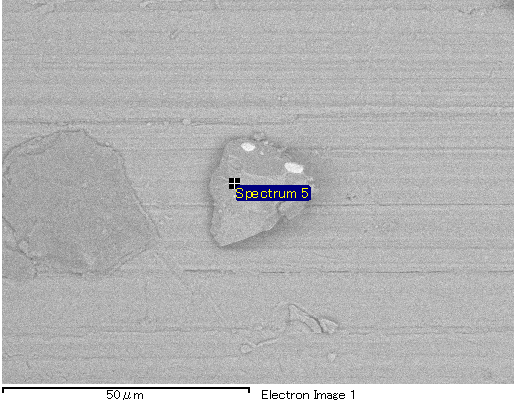
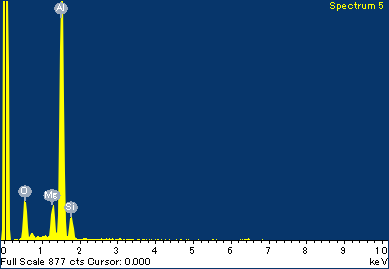
K MAD-10 Feldspar 1-Jun-1999 12:00 AM

Ca Wollastonite 1-Jun-1999 12:00 AM

Fe Fe 1-Jun-1999 12:00 AM

Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.08 | -0.08 | -0.11 | Na2O |  |
| Mg K | 0.33 | 0.32 | 0.55 | MgO |  |
| Al K | 29.97 | 25.90 | 56.63 | Al2O3 |  |
| Si K | 0.26 | 0.22 | 0.56 | SiO2 |  |
| P K | -0.10 | -0.07 | -0.22 | P2O5 |  |
| S K | 5.22 | 3.79 | 13.02 | SO3 |  |
| Cl K | -0.07 | -0.04 | 0.00 |  |  |
| K K | 0.09 | 0.05 | 0.10 | K2O |  |
| Ca K | -0.07 | -0.04 | -0.10 | CaO |  |
| Fe L | 23.04 | 9.62 | 29.65 | FeO |  |
| Ni L | -0.02 | -0.01 | -0.03 | NiO |  |
| O | 41.42 | 60.35 |  |  |  |
| Totals | 100.00 |  |  |  |  |



Spectrum Label: Spectrum 5

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 67569

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.70 | 918242 |
|  |  |  |  |
| Optimization data : Manganese K series |  |  |  |
|  | Energy (eV) | Resn. (eV) | Area |
| Strobe : | .1 | 53.38 | 1150729 |
| Optimization element : | 5892.6 | 129.89 | 573533 |

Spectrum processing :

No peaks omitted

Processing option : Oxygen by stoichiometry (Normalised)

Number of iterations = 1

Standard :

Na Albite 1-Jun-1999 12:00 AM

Mg MgO 1-Jun-1999 12:00 AM

Al Al2O3 1-Jun-1999 12:00 AM

Si SiO2 1-Jun-1999 12:00 AM

P GaP 1-Jun-1999 12:00 AM

S FeS2 1-Jun-1999 12:00 AM

Cl KCl 1-Jun-1999 12:00 AM

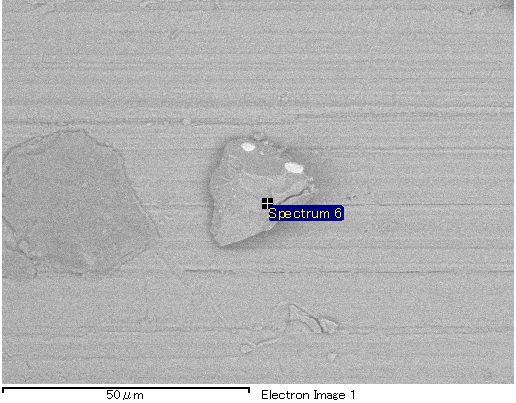
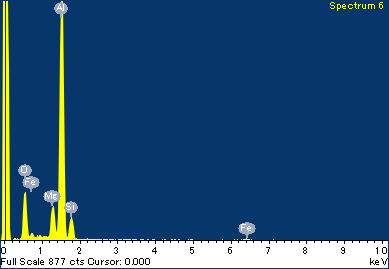
K MAD-10 Feldspar 1-Jun-1999 12:00 AM

Ca Wollastonite 1-Jun-1999 12:00 AM

Fe Fe 1-Jun-1999 12:00 AM

Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.09 | 0.08 | 0.12 | Na2O |  |
| Mg K | 4.10 | 3.56 | 6.79 | MgO |  |
| Al K | 39.41 | 30.86 | 74.47 | Al2O3 |  |
| Si K | 4.60 | 3.46 | 9.85 | SiO2 |  |
| P K | -0.17 | -0.11 | -0.38 | P2O5 |  |
| S K | 0.16 | 0.11 | 0.40 | SO3 |  |
| Cl K | -0.16 | -0.10 | 0.00 |  |  |
| K K | 0.23 | 0.12 | 0.28 | K2O |  |
| Ca K | 0.09 | 0.05 | 0.13 | CaO |  |
| Fe L | 6.34 | 2.40 | 8.16 | FeO |  |
| Ni L | 0.28 | 0.10 | 0.35 | NiO |  |
| O | 45.03 | 59.46 |  |  |  |
| Totals | 100.00 |  |  |  |  |



Spectrum Label: Spectrum 6

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 67862

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.71 | 917234 |
|  |  |  |  |
| Optimization data : Manganese K series |  |  |  |
|  | Energy (eV) | Resn. (eV) | Area |
| Strobe : | .1 | 53.38 | 1150729 |
| Optimization element : | 5892.6 | 129.89 | 573533 |

Spectrum processing :

No peaks omitted

Processing option : Oxygen by stoichiometry (Normalised)

Number of iterations = 1

Standard :

Na Albite 1-Jun-1999 12:00 AM

Mg MgO 1-Jun-1999 12:00 AM

Al Al2O3 1-Jun-1999 12:00 AM

Si SiO2 1-Jun-1999 12:00 AM

P GaP 1-Jun-1999 12:00 AM

S FeS2 1-Jun-1999 12:00 AM

Cl KCl 1-Jun-1999 12:00 AM

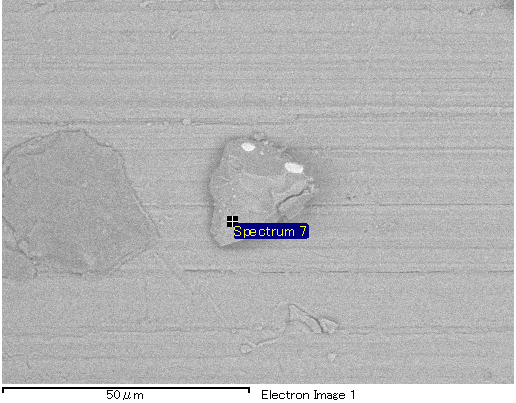
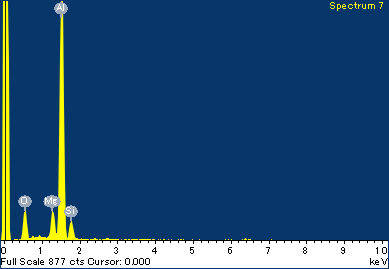
K MAD-10 Feldspar 1-Jun-1999 12:00 AM

Ca Wollastonite 1-Jun-1999 12:00 AM

Fe Fe 1-Jun-1999 12:00 AM

Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.14 | 0.13 | 0.19 | Na2O |  |
| Mg K | 3.77 | 3.27 | 6.25 | MgO |  |
| Al K | 40.21 | 31.39 | 75.98 | Al2O3 |  |
| Si K | 4.68 | 3.51 | 10.01 | SiO2 |  |
| P K | -0.07 | -0.05 | -0.17 | P2O5 |  |
| S K | -0.05 | -0.03 | -0.11 | SO3 |  |
| Cl K | 0.03 | 0.02 | 0.00 |  |  |
| K K | -0.33 | -0.18 | -0.39 | K2O |  |
| Ca K | -0.08 | -0.04 | -0.11 | CaO |  |
| Fe L | 6.66 | 2.51 | 8.57 | FeO |  |
| Ni L | -0.19 | -0.07 | -0.24 | NiO |  |
| O | 45.22 | 59.54 |  |  |  |
| Totals | 100.00 |  |  |  |  |



Spectrum Label: Spectrum 7

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 66402

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.70 | 918501 |
|  |  |  |  |
| Optimization data : Manganese K series |  |  |  |
|  | Energy (eV) | Resn. (eV) | Area |
| Strobe : | .1 | 53.38 | 1150729 |
| Optimization element : | 5892.6 | 129.89 | 573533 |

Spectrum processing :

No peaks omitted

Processing option : Oxygen by stoichiometry (Normalised)

Number of iterations = 1

Standard :

Na Albite 1-Jun-1999 12:00 AM

Mg MgO 1-Jun-1999 12:00 AM

Al Al2O3 1-Jun-1999 12:00 AM

Si SiO2 1-Jun-1999 12:00 AM

P GaP 1-Jun-1999 12:00 AM

S FeS2 1-Jun-1999 12:00 AM

Cl KCl 1-Jun-1999 12:00 AM

K MAD-10 Feldspar 1-Jun-1999 12:00 AM

Ca Wollastonite 1-Jun-1999 12:00 AM

Fe Fe 1-Jun-1999 12:00 AM

Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.01 | -0.01 | -0.02 | Na2O |  |
| Mg K | 3.47 | 2.94 | 5.76 | MgO |  |
| Al K | 43.52 | 33.19 | 82.23 | Al2O3 |  |
| Si K | 4.07 | 2.98 | 8.71 | SiO2 |  |
| P K | 0.13 | 0.08 | 0.29 | P2O5 |  |
| S K | 0.15 | 0.10 | 0.38 | SO3 |  |
| Cl K | -0.05 | -0.03 | 0.00 |  |  |
| K K | 0.13 | 0.07 | 0.15 | K2O |  |
| Ca K | 0.04 | 0.02 | 0.05 | CaO |  |
| Fe L | 2.01 | 0.74 | 2.59 | FeO |  |
| Ni L | -0.07 | -0.02 | -0.09 | NiO |  |
| O | 46.62 | 59.95 |  |  |  |
| Totals | 100.00 |  |  |  |  |