

Spectrum Label: Spectrum 1

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 69863

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.60 | 915983 |
|  |  |  |  |
| 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

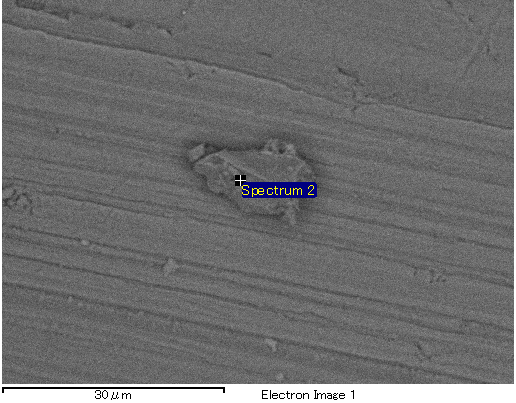
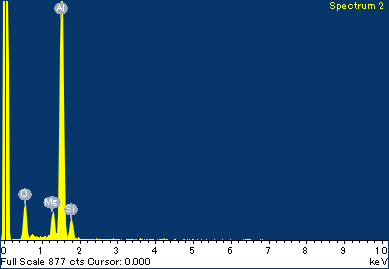
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.14 | 0.13 | 0.19 | Na2O |  |
| Mg K | 4.95 | 4.45 | 8.21 | MgO |  |
| Al K | 34.73 | 28.14 | 65.62 | Al2O3 |  |
| Si K | 4.46 | 3.47 | 9.55 | SiO2 |  |
| P K | -0.03 | -0.02 | -0.08 | P2O5 |  |
| S K | 0.14 | 0.10 | 0.35 | SO3 |  |
| Cl K | -0.08 | -0.05 | 0.00 |  |  |
| K K | -0.11 | -0.06 | -0.14 | K2O |  |
| Ca K | 0.01 | 0.01 | 0.01 | CaO |  |
| Fe L | 12.88 | 5.04 | 16.58 | FeO |  |
| Ni L | -0.17 | -0.06 | -0.22 | NiO |  |
| O | 43.08 | 58.86 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 14



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 = 66594

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.55 | 918728 |
|  |  |  |  |
| 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

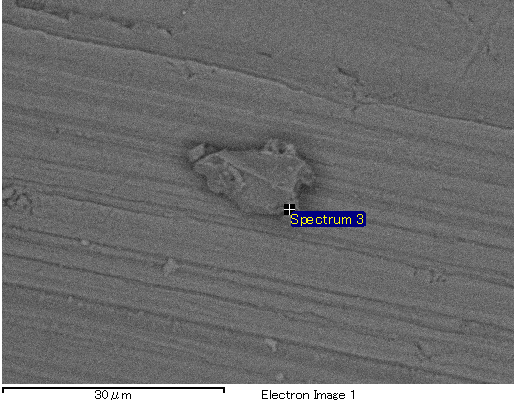
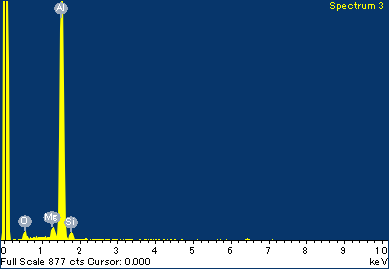
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.05 | 0.05 | 0.07 | Na2O |  |
| Mg K | 3.05 | 2.62 | 5.06 | MgO |  |
| Al K | 42.51 | 32.85 | 80.32 | Al2O3 |  |
| Si K | 4.42 | 3.28 | 9.46 | SiO2 |  |
| P K | -0.18 | -0.12 | -0.40 | P2O5 |  |
| S K | 0.00 | 0.00 | -0.01 | SO3 |  |
| Cl K | -0.09 | -0.06 | 0.00 |  |  |
| K K | 0.00 | 0.00 | -0.01 | K2O |  |
| Ca K | -0.22 | -0.11 | -0.31 | CaO |  |
| Fe L | 4.51 | 1.69 | 5.81 | FeO |  |
| Ni L | 0.08 | 0.03 | 0.11 | NiO |  |
| O | 45.87 | 59.78 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 14



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 = 65084

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.63 | 918383 |
|  |  |  |  |
| 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

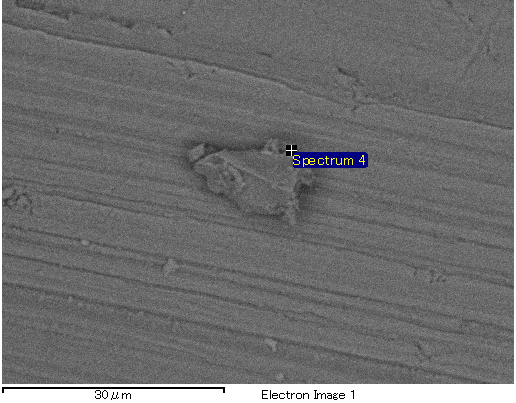
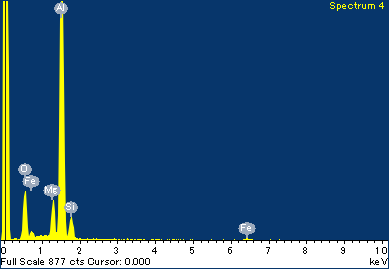
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.01 | 0.01 | 0.01 | Na2O |  |
| Mg K | 1.40 | 1.19 | 2.32 | MgO |  |
| Al K | 48.44 | 37.00 | 91.52 | Al2O3 |  |
| Si K | 1.79 | 1.32 | 3.84 | SiO2 |  |
| P K | -0.24 | -0.16 | -0.56 | P2O5 |  |
| S K | -0.01 | -0.01 | -0.03 | SO3 |  |
| Cl K | -0.04 | -0.02 | 0.00 |  |  |
| K K | 0.18 | 0.10 | 0.22 | K2O |  |
| Ca K | 0.38 | 0.19 | 0.53 | CaO |  |
| Fe L | 2.03 | 0.75 | 2.61 | FeO |  |
| Ni L | -0.33 | -0.12 | -0.42 | NiO |  |
| O | 46.40 | 59.76 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 14



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 = 68944

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.60 | 917069 |
|  |  |  |  |
| 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

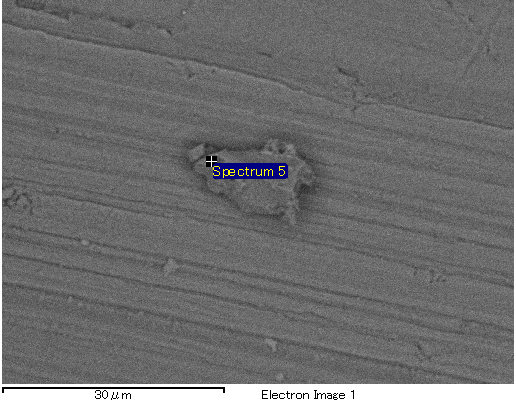
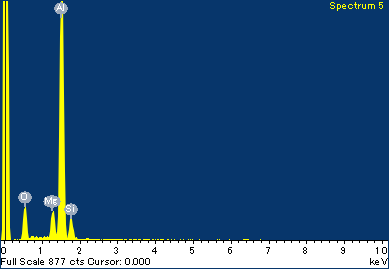
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.04 | 0.04 | 0.06 | Na2O |  |
| Mg K | 3.77 | 3.29 | 6.25 | MgO |  |
| Al K | 40.24 | 31.66 | 76.03 | Al2O3 |  |
| Si K | 3.62 | 2.74 | 7.75 | SiO2 |  |
| P K | -0.05 | -0.03 | -0.11 | P2O5 |  |
| S K | 0.13 | 0.09 | 0.33 | SO3 |  |
| Cl K | -0.02 | -0.01 | 0.00 |  |  |
| K K | 0.02 | 0.01 | 0.03 | K2O |  |
| Ca K | 0.12 | 0.06 | 0.16 | CaO |  |
| Fe L | 7.28 | 2.77 | 9.36 | FeO |  |
| Ni L | 0.13 | 0.05 | 0.16 | NiO |  |
| O | 44.72 | 59.34 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 14



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 = 66511

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.63 | 917439 |
|  |  |  |  |
| 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 | 3.46 | 2.95 | 5.74 | MgO |  |
| Al K | 43.28 | 33.20 | 81.78 | Al2O3 |  |
| Si K | 4.12 | 3.03 | 8.81 | SiO2 |  |
| P K | 0.03 | 0.02 | 0.07 | P2O5 |  |
| S K | -0.16 | -0.11 | -0.41 | SO3 |  |
| Cl K | 0.14 | 0.08 | 0.00 |  |  |
| K K | -0.12 | -0.07 | -0.15 | K2O |  |
| Ca K | 0.21 | 0.11 | 0.29 | CaO |  |
| Fe L | 2.88 | 1.07 | 3.71 | FeO |  |
| Ni L | 0.00 | 0.00 | 0.01 | NiO |  |
| O | 46.15 | 59.70 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 14