

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 = 69668

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.66 | 917705 |
|  |  |  |  |
| 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

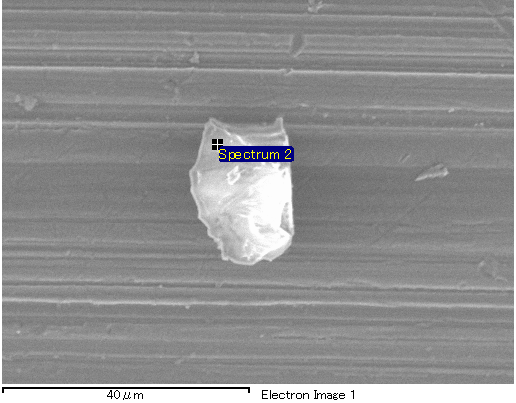
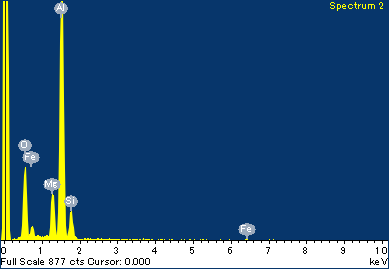
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.01 | 0.00 | -0.01 | Na2O |  |
| Mg K | 5.01 | 4.39 | 8.31 | MgO |  |
| Al K | 37.36 | 29.47 | 70.59 | Al2O3 |  |
| Si K | 4.56 | 3.46 | 9.77 | SiO2 |  |
| P K | 0.24 | 0.17 | 0.56 | P2O5 |  |
| S K | 0.13 | 0.09 | 0.33 | SO3 |  |
| Cl K | -0.09 | -0.05 | 0.00 |  |  |
| K K | -0.09 | -0.05 | -0.11 | K2O |  |
| Ca K | 0.17 | 0.09 | 0.23 | CaO |  |
| Fe L | 8.70 | 3.32 | 11.19 | FeO |  |
| Ni L | -0.62 | -0.22 | -0.79 | NiO |  |
| O | 44.62 | 59.35 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 7



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 = 70185

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.65 | 915673 |
|  |  |  |  |
| 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

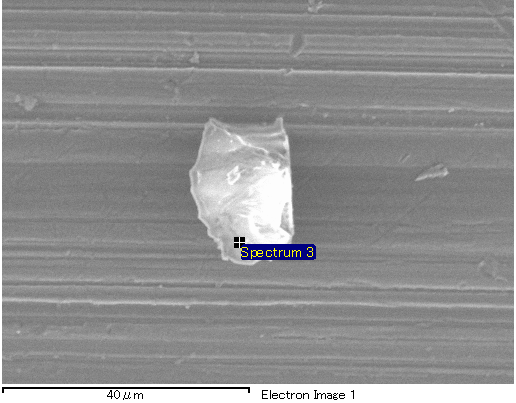
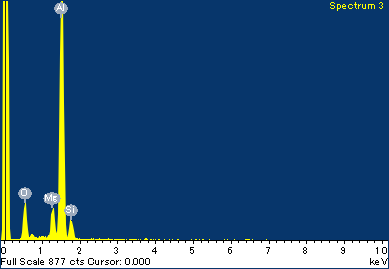
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.06 | 0.06 | 0.08 | Na2O |  |
| Mg K | 5.01 | 4.50 | 8.31 | MgO |  |
| Al K | 35.39 | 28.63 | 66.87 | Al2O3 |  |
| Si K | 4.39 | 3.42 | 9.40 | SiO2 |  |
| P K | -0.18 | -0.13 | -0.42 | P2O5 |  |
| S K | 0.00 | 0.00 | -0.01 | SO3 |  |
| Cl K | -0.04 | -0.02 | 0.00 |  |  |
| K K | -0.13 | -0.07 | -0.16 | K2O |  |
| Ca K | -0.02 | -0.01 | -0.02 | CaO |  |
| Fe L | 11.94 | 4.67 | 15.36 | FeO |  |
| Ni L | 0.50 | 0.18 | 0.63 | NiO |  |
| O | 43.08 | 58.78 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 7



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 = 68232

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.68 | 917483 |
|  |  |  |  |
| 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

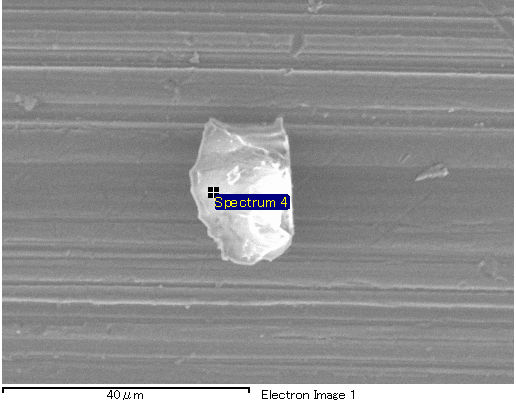
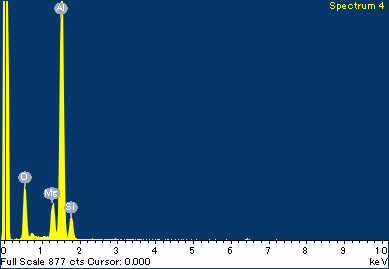
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.09 | -0.08 | -0.12 | Na2O |  |
| Mg K | 3.93 | 3.39 | 6.51 | MgO |  |
| Al K | 40.58 | 31.56 | 76.66 | Al2O3 |  |
| Si K | 4.25 | 3.18 | 9.09 | SiO2 |  |
| P K | -0.09 | -0.06 | -0.21 | P2O5 |  |
| S K | 0.24 | 0.15 | 0.59 | SO3 |  |
| Cl K | -0.14 | -0.08 | 0.00 |  |  |
| K K | 0.01 | 0.00 | 0.01 | K2O |  |
| Ca K | 0.56 | 0.29 | 0.79 | CaO |  |
| Fe L | 5.96 | 2.24 | 7.67 | FeO |  |
| Ni L | -0.66 | -0.24 | -0.84 | NiO |  |
| O | 45.47 | 59.65 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 7



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 = 68722

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.61 | 918134 |
|  |  |  |  |
| 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

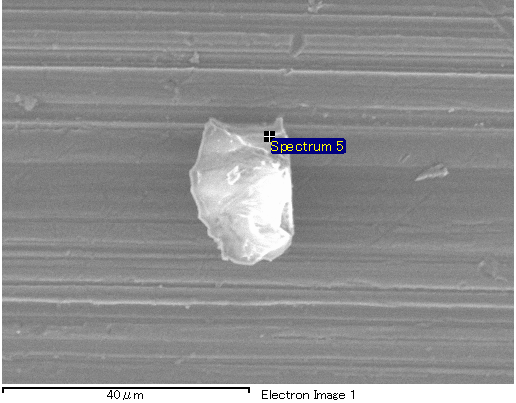
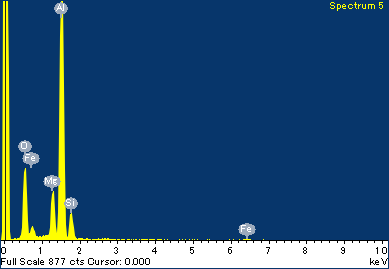
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.04 | 0.03 | 0.05 | Na2O |  |
| Mg K | 4.39 | 3.80 | 7.28 | MgO |  |
| Al K | 39.92 | 31.14 | 75.43 | Al2O3 |  |
| Si K | 4.46 | 3.34 | 9.53 | SiO2 |  |
| P K | -0.01 | -0.01 | -0.03 | P2O5 |  |
| S K | -0.01 | 0.00 | -0.01 | SO3 |  |
| Cl K | -0.20 | -0.12 | 0.00 |  |  |
| K K | 0.10 | 0.05 | 0.12 | K2O |  |
| Ca K | -0.05 | -0.03 | -0.08 | CaO |  |
| Fe L | 5.76 | 2.17 | 7.41 | FeO |  |
| Ni L | 0.40 | 0.14 | 0.51 | NiO |  |
| O | 45.22 | 59.48 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 7



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 = 71146

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.66 | 916735 |
|  |  |  |  |
| 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 | -0.02 | -0.02 | -0.02 | Na2O |  |
| Mg K | 5.27 | 4.67 | 8.73 | MgO |  |
| Al K | 36.32 | 28.99 | 68.63 | Al2O3 |  |
| Si K | 4.47 | 3.43 | 9.57 | SiO2 |  |
| P K | 0.07 | 0.05 | 0.15 | P2O5 |  |
| S K | -0.01 | -0.01 | -0.03 | SO3 |  |
| Cl K | 0.00 | 0.00 | 0.00 |  |  |
| K K | 0.11 | 0.06 | 0.14 | K2O |  |
| Ca K | 0.02 | 0.01 | 0.03 | CaO |  |
| Fe L | 10.24 | 3.95 | 13.17 | FeO |  |
| Ni L | -0.30 | -0.11 | -0.38 | NiO |  |
| O | 43.82 | 58.98 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 7