

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 = 68035

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.65 | 917094 |
|  |  |  |  |
| 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

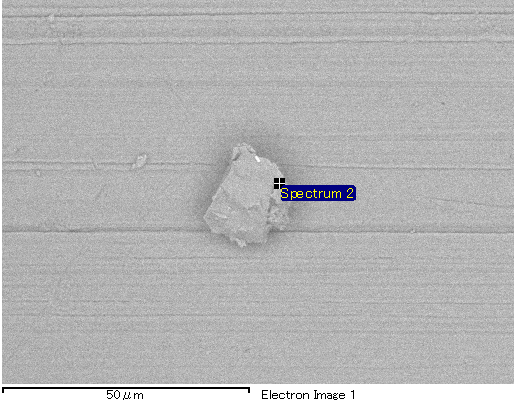
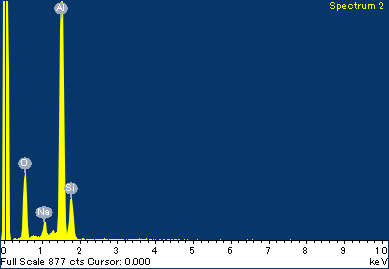
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.06 | 0.06 | 0.08 | Na2O |  |
| Mg K | 4.85 | 4.21 | 8.04 | MgO |  |
| Al K | 39.02 | 30.53 | 73.72 | Al2O3 |  |
| Si K | 4.51 | 3.39 | 9.64 | SiO2 |  |
| P K | -0.06 | -0.04 | -0.14 | P2O5 |  |
| S K | 0.03 | 0.02 | 0.08 | SO3 |  |
| Cl K | -0.05 | -0.03 | 0.00 |  |  |
| K K | -0.01 | 0.00 | -0.01 | K2O |  |
| Ca K | 0.16 | 0.08 | 0.22 | CaO |  |
| Fe L | 7.04 | 2.66 | 9.05 | FeO |  |
| Ni L | -0.49 | -0.18 | -0.62 | NiO |  |
| O | 44.96 | 59.31 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 11



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 = 69295

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.71 | 918148 |
|  |  |  |  |
| 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

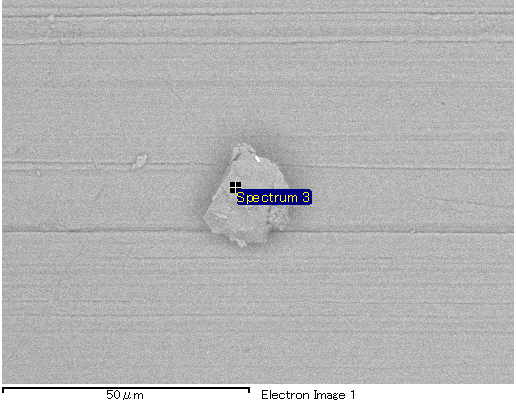
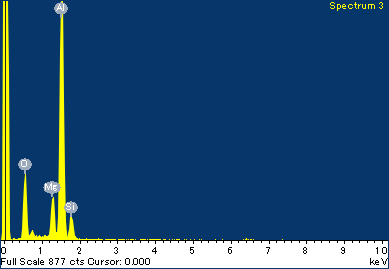
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 1.79 | 1.59 | 2.41 | Na2O |  |
| Mg K | 0.47 | 0.39 | 0.78 | MgO |  |
| Al K | 41.28 | 31.25 | 78.00 | Al2O3 |  |
| Si K | 8.21 | 5.97 | 17.56 | SiO2 |  |
| P K | 0.11 | 0.07 | 0.26 | P2O5 |  |
| S K | -0.10 | -0.06 | -0.24 | SO3 |  |
| Cl K | 0.18 | 0.10 | 0.00 |  |  |
| K K | 0.14 | 0.07 | 0.17 | K2O |  |
| Ca K | 0.17 | 0.09 | 0.24 | CaO |  |
| Fe L | 1.02 | 0.37 | 1.31 | FeO |  |
| Ni L | -0.53 | -0.18 | -0.67 | NiO |  |
| O | 47.25 | 60.33 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 11



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 = 68282

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.74 | 918570 |
|  |  |  |  |
| 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

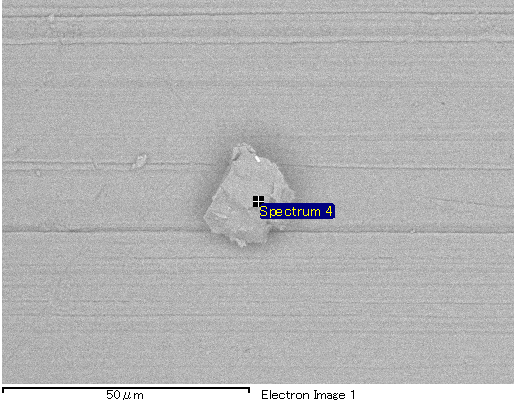
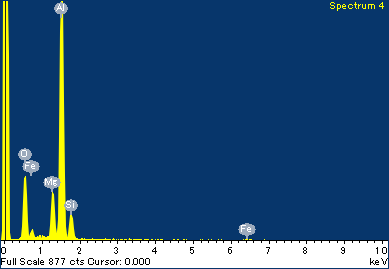
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.20 | 0.19 | 0.27 | Na2O |  |
| Mg K | 4.85 | 4.23 | 8.05 | MgO |  |
| Al K | 38.46 | 30.20 | 72.67 | Al2O3 |  |
| Si K | 4.42 | 3.33 | 9.45 | SiO2 |  |
| P K | 0.00 | 0.00 | 0.00 | P2O5 |  |
| S K | 0.06 | 0.04 | 0.15 | SO3 |  |
| Cl K | -0.01 | -0.01 | 0.00 |  |  |
| K K | 0.38 | 0.20 | 0.45 | K2O |  |
| Ca K | 0.00 | 0.00 | 0.01 | CaO |  |
| Fe L | 7.41 | 2.81 | 9.54 | FeO |  |
| Ni L | -0.45 | -0.16 | -0.58 | NiO |  |
| O | 44.68 | 59.16 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 11



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 = 68989

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.69 | 917798 |
|  |  |  |  |
| 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

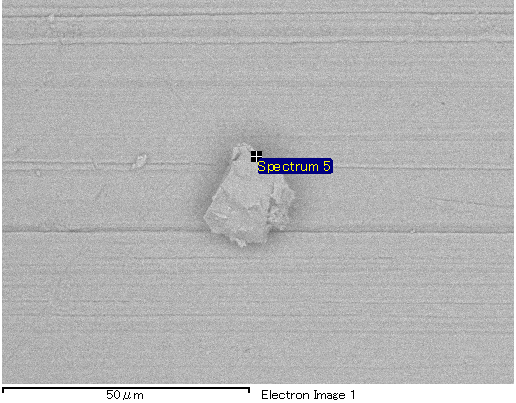
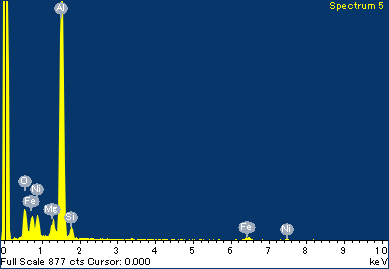
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.01 | 0.01 | 0.01 | Na2O |  |
| Mg K | 5.08 | 4.50 | 8.42 | MgO |  |
| Al K | 36.34 | 29.02 | 68.65 | Al2O3 |  |
| Si K | 4.26 | 3.27 | 9.11 | SiO2 |  |
| P K | 0.18 | 0.13 | 0.41 | P2O5 |  |
| S K | 0.10 | 0.07 | 0.26 | SO3 |  |
| Cl K | 0.15 | 0.09 | 0.00 |  |  |
| K K | 0.02 | 0.01 | 0.02 | K2O |  |
| Ca K | 0.11 | 0.06 | 0.15 | CaO |  |
| Fe L | 9.94 | 3.84 | 12.79 | FeO |  |
| Ni L | 0.02 | 0.01 | 0.03 | NiO |  |
| O | 43.80 | 59.00 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 11



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 = 68517

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.67 | 917930 |
|  |  |  |  |
| 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

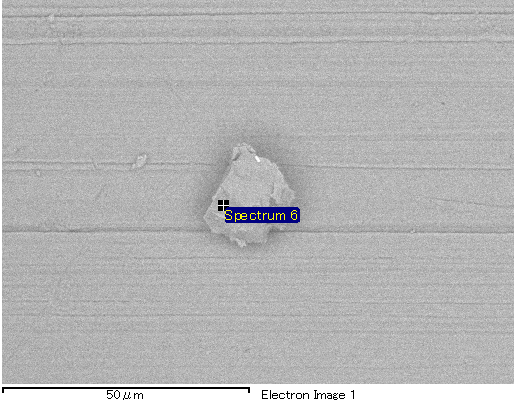
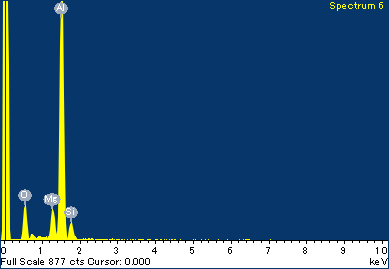
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.00 | 0.00 | 0.00 | Na2O |  |
| Mg K | 1.41 | 1.38 | 2.34 | MgO |  |
| Al K | 32.63 | 28.73 | 61.66 | Al2O3 |  |
| Si K | 1.52 | 1.29 | 3.25 | SiO2 |  |
| P K | 0.13 | 0.10 | 0.29 | P2O5 |  |
| S K | 0.09 | 0.06 | 0.21 | SO3 |  |
| Cl K | -0.18 | -0.12 | 0.00 |  |  |
| K K | 0.24 | 0.14 | 0.29 | K2O |  |
| Ca K | -0.31 | -0.19 | -0.44 | CaO |  |
| Fe L | 16.60 | 7.06 | 21.36 | FeO |  |
| Ni L | 8.81 | 3.56 | 11.21 | NiO |  |
| O | 39.06 | 57.98 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 11



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 = 66328

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.70 | 918667 |
|  |  |  |  |
| 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 | 0.05 | 0.08 | Na2O |  |
| Mg K | 3.63 | 3.13 | 6.01 | MgO |  |
| Al K | 41.83 | 32.55 | 79.03 | Al2O3 |  |
| Si K | 3.73 | 2.79 | 7.99 | SiO2 |  |
| P K | -0.05 | -0.04 | -0.12 | P2O5 |  |
| S K | -0.02 | -0.01 | -0.04 | SO3 |  |
| Cl K | 0.03 | 0.01 | 0.00 |  |  |
| K K | 0.11 | 0.06 | 0.13 | K2O |  |
| Ca K | -0.25 | -0.13 | -0.35 | CaO |  |
| Fe L | 5.63 | 2.12 | 7.24 | FeO |  |
| Ni L | 0.00 | 0.00 | 0.01 | NiO |  |
| O | 45.31 | 59.46 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 11