

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 = 68146

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.69 | 918097 |
|  |  |  |  |
| 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

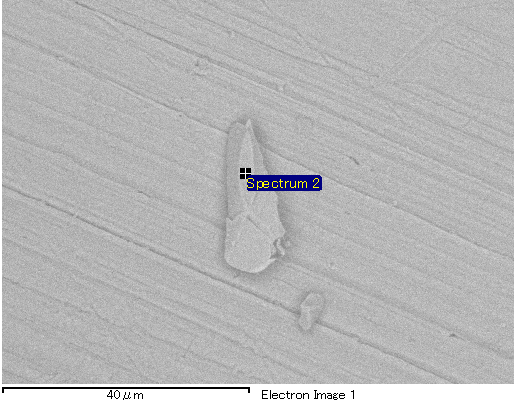
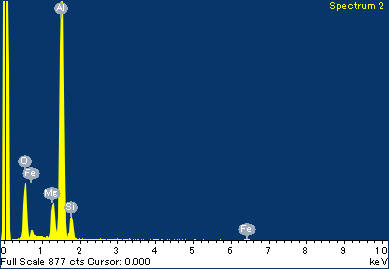
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.02 | 0.02 | 0.03 | Na2O |  |
| Mg K | 4.27 | 3.75 | 7.07 | MgO |  |
| Al K | 38.34 | 30.39 | 72.44 | Al2O3 |  |
| Si K | 4.34 | 3.30 | 9.28 | SiO2 |  |
| P K | -0.19 | -0.13 | -0.43 | P2O5 |  |
| S K | 0.08 | 0.06 | 0.21 | SO3 |  |
| Cl K | 0.07 | 0.04 | 0.00 |  |  |
| K K | 0.11 | 0.06 | 0.13 | K2O |  |
| Ca K | 0.01 | 0.01 | 0.02 | CaO |  |
| Fe L | 9.26 | 3.55 | 11.92 | FeO |  |
| Ni L | -0.58 | -0.21 | -0.74 | NiO |  |
| O | 44.26 | 59.17 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 22



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 = 67655

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.71 | 917515 |
|  |  |  |  |
| 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

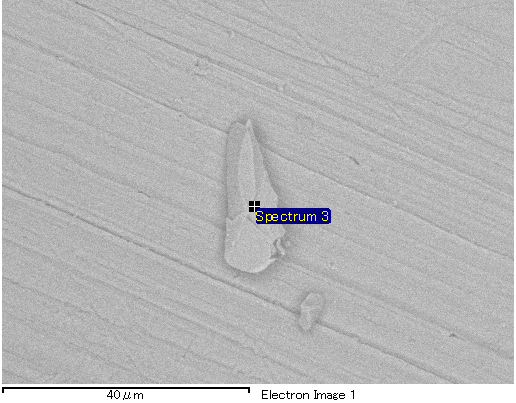
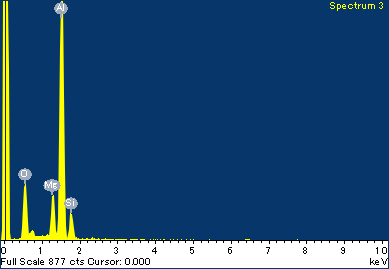
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.17 | -0.16 | -0.23 | Na2O |  |
| Mg K | 4.28 | 3.75 | 7.10 | MgO |  |
| Al K | 38.49 | 30.40 | 72.72 | Al2O3 |  |
| Si K | 4.29 | 3.25 | 9.17 | SiO2 |  |
| P K | 0.16 | 0.11 | 0.37 | P2O5 |  |
| S K | 0.12 | 0.08 | 0.30 | SO3 |  |
| Cl K | -0.06 | -0.03 | 0.00 |  |  |
| K K | -0.01 | -0.01 | -0.01 | K2O |  |
| Ca K | -0.10 | -0.05 | -0.14 | CaO |  |
| Fe L | 8.94 | 3.41 | 11.49 | FeO |  |
| Ni L | -0.57 | -0.21 | -0.72 | NiO |  |
| O | 44.63 | 59.45 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 22



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 = 68083

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.66 | 916378 |
|  |  |  |  |
| 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

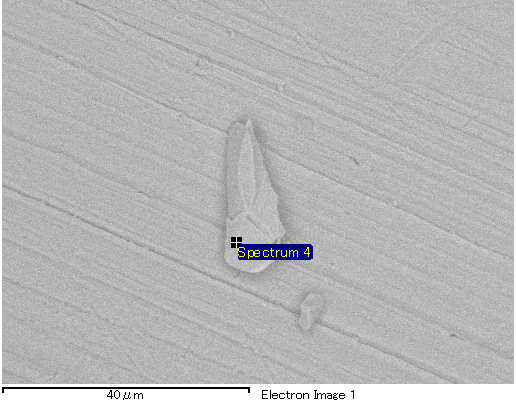
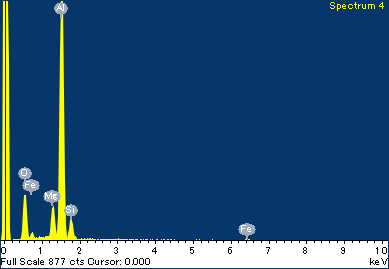
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.22 | -0.20 | -0.30 | Na2O |  |
| Mg K | 4.86 | 4.23 | 8.06 | MgO |  |
| Al K | 38.26 | 29.99 | 72.29 | Al2O3 |  |
| Si K | 4.82 | 3.63 | 10.30 | SiO2 |  |
| P K | 0.17 | 0.12 | 0.39 | P2O5 |  |
| S K | 0.14 | 0.09 | 0.35 | SO3 |  |
| Cl K | 0.21 | 0.13 | 0.00 |  |  |
| K K | -0.07 | -0.04 | -0.08 | K2O |  |
| Ca K | -0.07 | -0.04 | -0.10 | CaO |  |
| Fe L | 7.20 | 2.72 | 9.26 | FeO |  |
| Ni L | -0.30 | -0.11 | -0.39 | NiO |  |
| O | 45.01 | 59.49 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 22



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 = 66924

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.57 | 918893 |
|  |  |  |  |
| 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

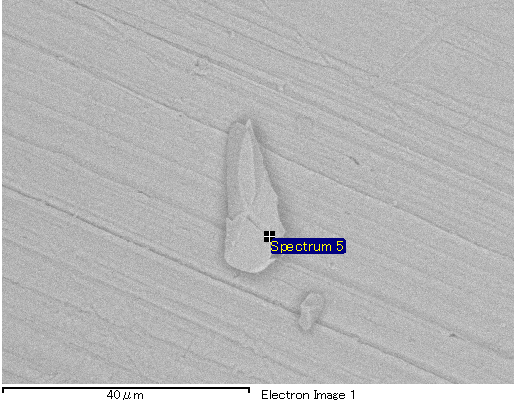
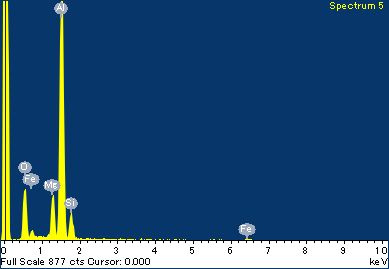
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.08 | -0.07 | -0.10 | Na2O |  |
| Mg K | 3.98 | 3.46 | 6.60 | MgO |  |
| Al K | 40.13 | 31.46 | 75.81 | Al2O3 |  |
| Si K | 3.82 | 2.88 | 8.17 | SiO2 |  |
| P K | 0.16 | 0.11 | 0.37 | P2O5 |  |
| S K | 0.08 | 0.05 | 0.21 | SO3 |  |
| Cl K | 0.16 | 0.10 | 0.00 |  |  |
| K K | -0.05 | -0.03 | -0.06 | K2O |  |
| Ca K | 0.10 | 0.05 | 0.14 | CaO |  |
| Fe L | 6.90 | 2.61 | 8.87 | FeO |  |
| Ni L | -0.13 | -0.05 | -0.17 | NiO |  |
| O | 44.93 | 59.42 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 22



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 = 68329

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.69 | 918313 |
|  |  |  |  |
| 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 | -0.18 | Na2O |  |
| Mg K | 5.03 | 4.39 | 8.34 | MgO |  |
| Al K | 38.02 | 29.93 | 71.83 | Al2O3 |  |
| Si K | 4.78 | 3.61 | 10.22 | SiO2 |  |
| P K | 0.14 | 0.10 | 0.33 | P2O5 |  |
| S K | -0.14 | -0.09 | -0.35 | SO3 |  |
| Cl K | 0.19 | 0.11 | 0.00 |  |  |
| K K | 0.20 | 0.11 | 0.24 | K2O |  |
| Ca K | -0.26 | -0.14 | -0.37 | CaO |  |
| Fe L | 8.11 | 3.08 | 10.43 | FeO |  |
| Ni L | -0.54 | -0.19 | -0.68 | NiO |  |
| O | 44.61 | 59.22 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 22