

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 = 67430

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.56 | 916892 |
|  |  |  |  |
| 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

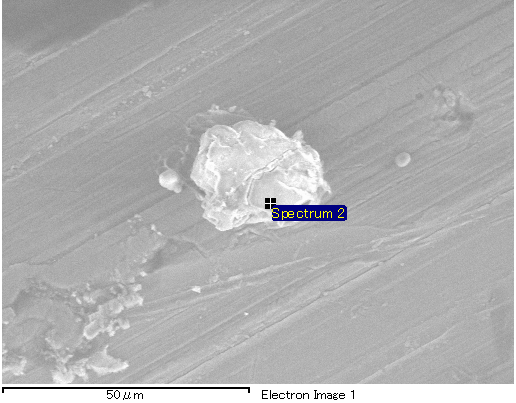
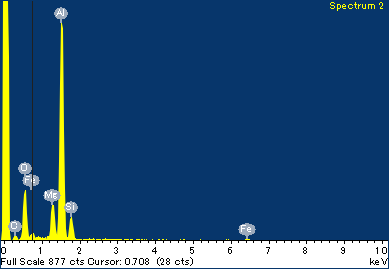
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.04 | -0.04 | -0.06 | Na2O |  |
| Mg K | 5.29 | 4.69 | 8.78 | MgO |  |
| Al K | 36.60 | 29.20 | 69.15 | Al2O3 |  |
| Si K | 4.51 | 3.46 | 9.65 | SiO2 |  |
| P K | -0.03 | -0.02 | -0.06 | P2O5 |  |
| S K | -0.10 | -0.06 | -0.24 | SO3 |  |
| Cl K | -0.12 | -0.07 | 0.00 |  |  |
| K K | -0.03 | -0.02 | -0.04 | K2O |  |
| Ca K | -0.07 | -0.04 | -0.10 | CaO |  |
| Fe L | 9.46 | 3.65 | 12.17 | FeO |  |
| Ni L | 0.68 | 0.25 | 0.87 | NiO |  |
| O | 43.84 | 59.00 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 2



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 = 67131

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.58 | 917938 |
|  |  |  |  |
| 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

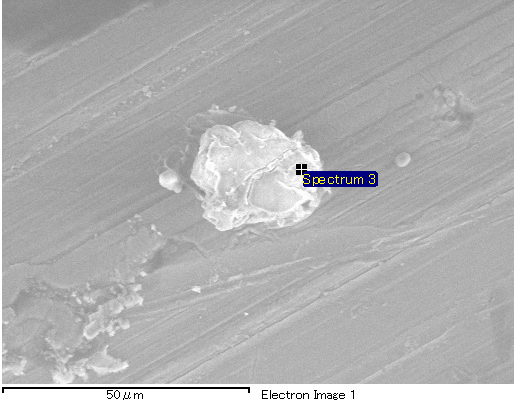
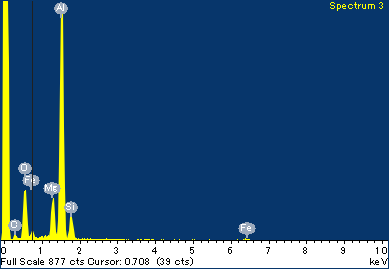
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.08 | -0.07 | -0.11 | Na2O |  |
| Mg K | 5.13 | 4.52 | 8.50 | MgO |  |
| Al K | 36.50 | 29.00 | 68.96 | Al2O3 |  |
| Si K | 4.94 | 3.77 | 10.56 | SiO2 |  |
| P K | -0.03 | -0.02 | -0.06 | P2O5 |  |
| S K | 0.08 | 0.05 | 0.19 | SO3 |  |
| Cl K | 0.28 | 0.17 | 0.00 |  |  |
| K K | 0.05 | 0.03 | 0.06 | K2O |  |
| Ca K | 0.01 | 0.01 | 0.02 | CaO |  |
| Fe L | 8.66 | 3.33 | 11.14 | FeO |  |
| Ni L | 0.35 | 0.13 | 0.45 | NiO |  |
| O | 44.11 | 59.10 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 2



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 = 67451

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.56 | 917330 |
|  |  |  |  |
| 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

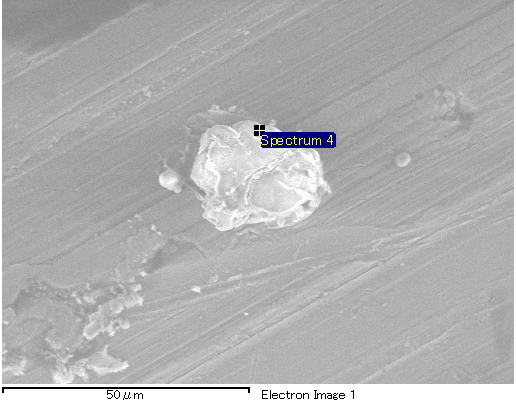
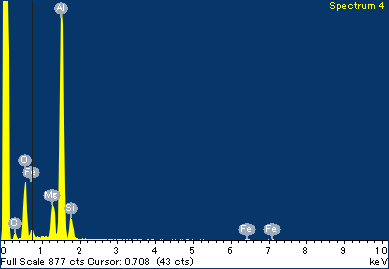
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.05 | 0.05 | 0.07 | Na2O |  |
| Mg K | 5.30 | 4.68 | 8.79 | MgO |  |
| Al K | 36.52 | 29.07 | 69.00 | Al2O3 |  |
| Si K | 4.66 | 3.56 | 9.97 | SiO2 |  |
| P K | -0.03 | -0.02 | -0.07 | P2O5 |  |
| S K | 0.00 | 0.00 | -0.01 | SO3 |  |
| Cl K | 0.07 | 0.04 | 0.00 |  |  |
| K K | -0.08 | -0.04 | -0.09 | K2O |  |
| Ca K | -0.12 | -0.07 | -0.17 | CaO |  |
| Fe L | 10.23 | 3.93 | 13.16 | FeO |  |
| Ni L | -0.56 | -0.21 | -0.72 | NiO |  |
| O | 43.96 | 59.01 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 2



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 = 67658

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.59 | 917960 |
|  |  |  |  |
| 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

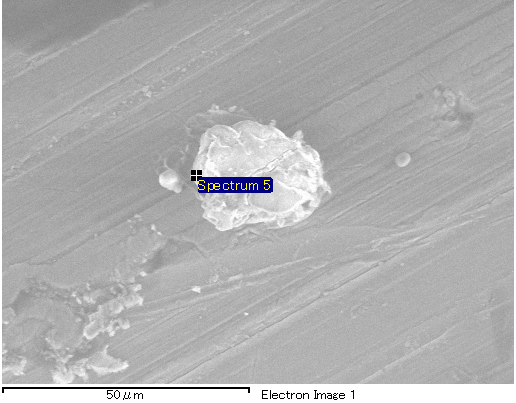
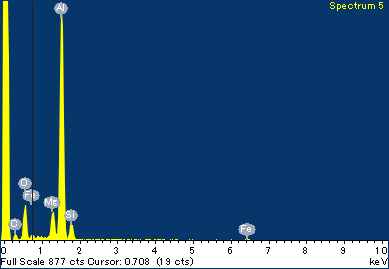
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.00 | 0.00 | 0.00 | Na2O |  |
| Mg K | 4.87 | 4.35 | 8.08 | MgO |  |
| Al K | 35.95 | 28.90 | 67.93 | Al2O3 |  |
| Si K | 4.45 | 3.44 | 9.52 | SiO2 |  |
| P K | -0.05 | -0.04 | -0.13 | P2O5 |  |
| S K | 0.10 | 0.07 | 0.26 | SO3 |  |
| Cl K | 0.11 | 0.07 | 0.00 |  |  |
| K K | -0.10 | -0.06 | -0.12 | K2O |  |
| Ca K | -0.19 | -0.10 | -0.26 | CaO |  |
| Fe L | 10.99 | 4.27 | 14.14 | FeO |  |
| Ni L | 0.36 | 0.13 | 0.46 | NiO |  |
| O | 43.49 | 58.97 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 2



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 = 66299

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.60 | 918881 |
|  |  |  |  |
| 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 | 3.95 | 3.46 | 6.55 | MgO |  |
| Al K | 39.98 | 31.51 | 75.54 | Al2O3 |  |
| Si K | 3.87 | 2.93 | 8.28 | SiO2 |  |
| P K | 0.12 | 0.08 | 0.27 | P2O5 |  |
| S K | -0.20 | -0.14 | -0.51 | SO3 |  |
| Cl K | -0.19 | -0.11 | 0.00 |  |  |
| K K | -0.16 | -0.09 | -0.20 | K2O |  |
| Ca K | -0.13 | -0.07 | -0.18 | CaO |  |
| Fe L | 7.35 | 2.80 | 9.45 | FeO |  |
| Ni L | 0.76 | 0.28 | 0.97 | NiO |  |
| O | 44.65 | 59.35 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 2