

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 = 68544

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.61 | 918353 |
|  |  |  |  |
| 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

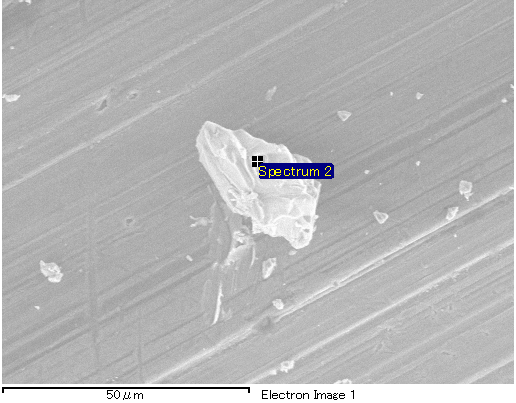
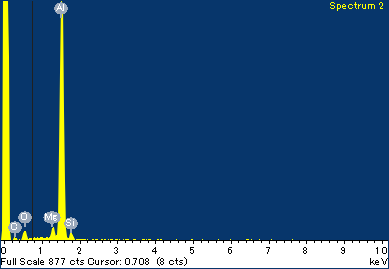
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.00 | 0.00 | 0.00 | Na2O |  |
| Mg K | 4.77 | 4.24 | 7.91 | MgO |  |
| Al K | 36.14 | 28.95 | 68.29 | Al2O3 |  |
| Si K | 4.63 | 3.56 | 9.90 | SiO2 |  |
| P K | 0.14 | 0.10 | 0.33 | P2O5 |  |
| S K | -0.07 | -0.05 | -0.18 | SO3 |  |
| Cl K | 0.04 | 0.02 | 0.00 |  |  |
| K K | 0.10 | 0.06 | 0.13 | K2O |  |
| Ca K | 0.13 | 0.07 | 0.18 | CaO |  |
| Fe L | 10.63 | 4.11 | 13.68 | FeO |  |
| Ni L | -0.20 | -0.07 | -0.26 | NiO |  |
| O | 43.69 | 59.02 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 6



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 = 64860

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.66 | 918215 |
|  |  |  |  |
| 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

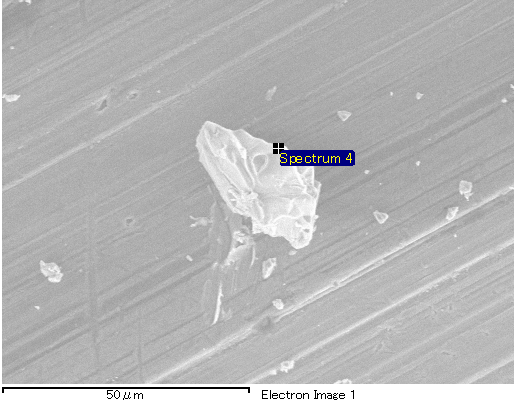
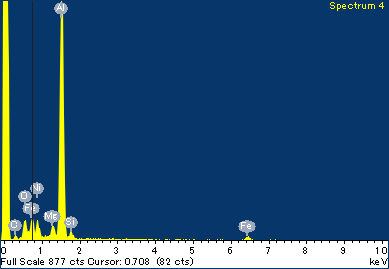
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.23 | -0.21 | -0.32 | Na2O |  |
| Mg K | 1.79 | 1.49 | 2.97 | MgO |  |
| Al K | 50.01 | 37.50 | 94.48 | Al2O3 |  |
| Si K | 1.96 | 1.41 | 4.20 | SiO2 |  |
| P K | 0.03 | 0.02 | 0.07 | P2O5 |  |
| S K | 0.08 | 0.05 | 0.20 | SO3 |  |
| Cl K | 0.20 | 0.11 | 0.00 |  |  |
| K K | -0.53 | -0.27 | -0.63 | K2O |  |
| Ca K | 0.13 | 0.06 | 0.18 | CaO |  |
| Fe L | -0.89 | -0.32 | -1.14 | FeO |  |
| Ni L | -0.16 | -0.05 | -0.20 | NiO |  |
| O | 47.61 | 60.21 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 6



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 = 67743

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.58 | 917281 |
|  |  |  |  |
| 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

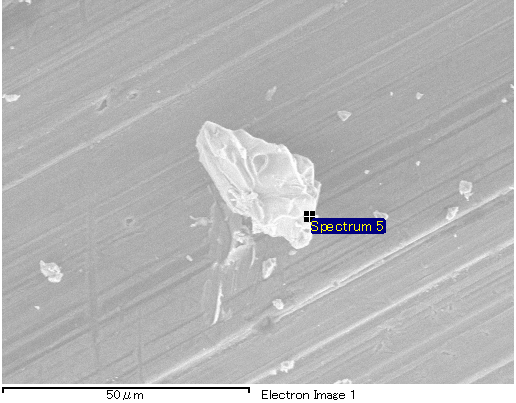
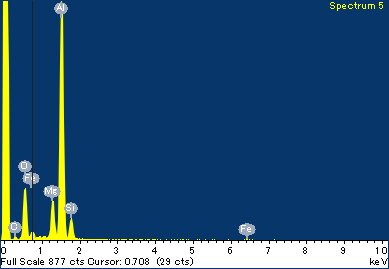
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.01 | 0.01 | 0.01 | Na2O |  |
| Mg K | 1.29 | 1.28 | 2.14 | MgO |  |
| Al K | 31.85 | 28.46 | 60.17 | Al2O3 |  |
| Si K | 0.94 | 0.81 | 2.02 | SiO2 |  |
| P K | 0.06 | 0.05 | 0.14 | P2O5 |  |
| S K | 0.08 | 0.06 | 0.20 | SO3 |  |
| Cl K | -0.10 | -0.07 | 0.00 |  |  |
| K K | -0.05 | -0.03 | -0.06 | K2O |  |
| Ca K | -0.03 | -0.02 | -0.04 | CaO |  |
| Fe L | 19.77 | 8.54 | 25.43 | FeO |  |
| Ni L | 7.93 | 3.26 | 10.09 | NiO |  |
| O | 38.26 | 57.66 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 6



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 = 68306

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.62 | 917367 |
|  |  |  |  |
| 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

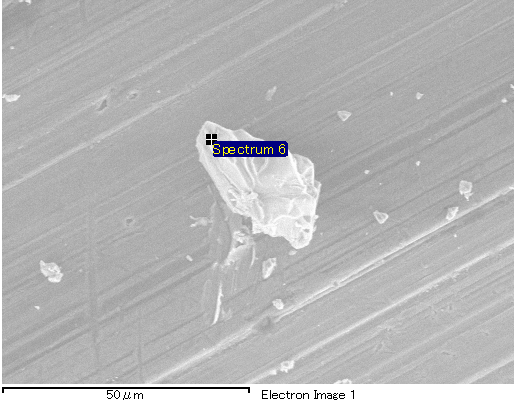
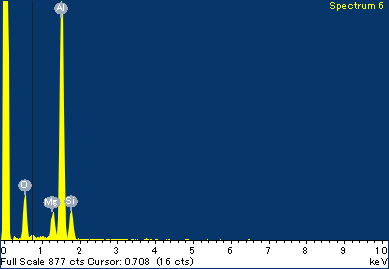
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.23 | 0.21 | 0.31 | Na2O |  |
| Mg K | 4.99 | 4.36 | 8.27 | MgO |  |
| Al K | 37.80 | 29.80 | 71.43 | Al2O3 |  |
| Si K | 4.35 | 3.30 | 9.31 | SiO2 |  |
| P K | 0.06 | 0.04 | 0.13 | P2O5 |  |
| S K | 0.13 | 0.09 | 0.33 | SO3 |  |
| Cl K | 0.05 | 0.03 | 0.00 |  |  |
| K K | 0.31 | 0.17 | 0.38 | K2O |  |
| Ca K | -0.15 | -0.08 | -0.21 | CaO |  |
| Fe L | 8.28 | 3.15 | 10.65 | FeO |  |
| Ni L | -0.51 | -0.18 | -0.64 | NiO |  |
| O | 44.45 | 59.11 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 6



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 = 67866

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.59 | 916523 |
|  |  |  |  |
| 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

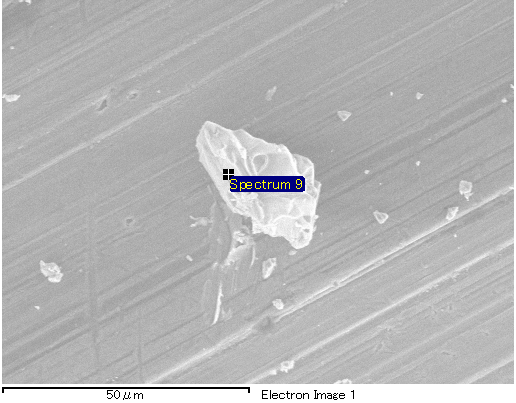
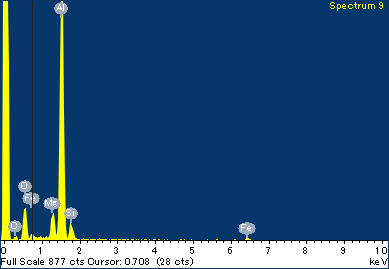
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.00 | 0.00 | -0.01 | Na2O |  |
| Mg K | 3.51 | 3.01 | 5.83 | MgO |  |
| Al K | 39.66 | 30.57 | 74.93 | Al2O3 |  |
| Si K | 6.43 | 4.76 | 13.77 | SiO2 |  |
| P K | 0.08 | 0.05 | 0.18 | P2O5 |  |
| S K | -0.07 | -0.04 | -0.17 | SO3 |  |
| Cl K | -0.28 | -0.16 | 0.00 |  |  |
| K K | -0.01 | 0.00 | -0.01 | K2O |  |
| Ca K | 0.48 | 0.25 | 0.67 | CaO |  |
| Fe L | 4.01 | 1.49 | 5.16 | FeO |  |
| Ni L | -0.04 | -0.02 | -0.06 | NiO |  |
| O | 46.23 | 60.10 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 6



Spectrum Label: Spectrum 9

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 67217

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.56 | 916956 |
|  |  |  |  |
| 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

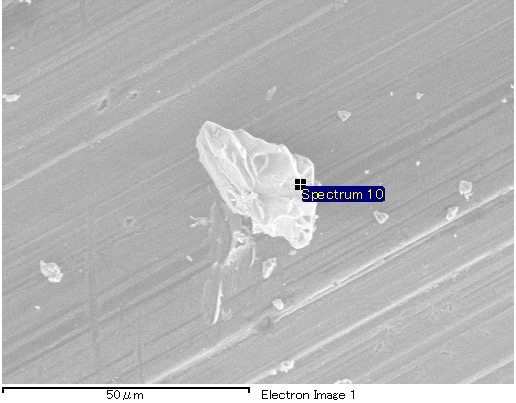
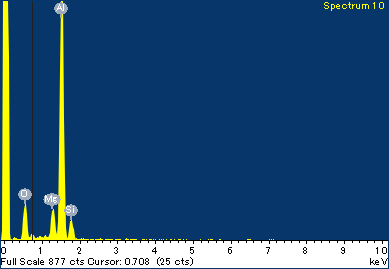
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.03 | 0.03 | 0.05 | Na2O |  |
| Mg K | 3.62 | 3.12 | 6.00 | MgO |  |
| Al K | 42.00 | 32.60 | 79.35 | Al2O3 |  |
| Si K | 3.39 | 2.53 | 7.25 | SiO2 |  |
| P K | 0.01 | 0.01 | 0.03 | P2O5 |  |
| S K | 0.25 | 0.16 | 0.63 | SO3 |  |
| Cl K | 0.00 | 0.00 | 0.00 |  |  |
| K K | -0.08 | -0.04 | -0.10 | K2O |  |
| Ca K | 0.09 | 0.05 | 0.13 | CaO |  |
| Fe L | 5.94 | 2.23 | 7.64 | FeO |  |
| Ni L | -0.76 | -0.27 | -0.96 | NiO |  |
| O | 45.51 | 59.59 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 6



Spectrum Label: Spectrum 10

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 67364

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.57 | 917885 |
|  |  |  |  |
| 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 | 0.21 | 0.19 | 0.28 | Na2O |  |
| Mg K | 4.18 | 3.61 | 6.94 | MgO |  |
| Al K | 40.05 | 31.11 | 75.67 | Al2O3 |  |
| Si K | 4.51 | 3.36 | 9.64 | SiO2 |  |
| P K | 0.11 | 0.07 | 0.24 | P2O5 |  |
| S K | 0.11 | 0.07 | 0.27 | SO3 |  |
| Cl K | -0.27 | -0.16 | 0.00 |  |  |
| K K | -0.24 | -0.13 | -0.29 | K2O |  |
| Ca K | 0.19 | 0.10 | 0.27 | CaO |  |
| Fe L | 5.95 | 2.23 | 7.65 | FeO |  |
| Ni L | -0.31 | -0.11 | -0.40 | NiO |  |
| O | 45.52 | 59.65 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 6