

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 = 70907

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.67 | 914676 |
|  |  |  |  |
| 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

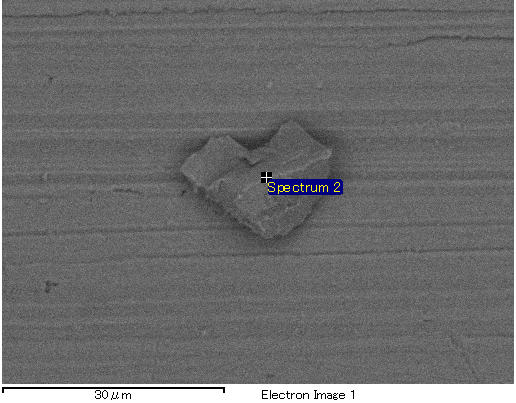
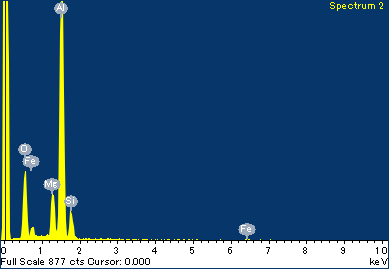
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.08 | -0.08 | -0.11 | Na2O |  |
| Mg K | 4.61 | 4.07 | 7.64 | MgO |  |
| Al K | 38.29 | 30.43 | 72.34 | Al2O3 |  |
| Si K | 4.00 | 3.06 | 8.57 | SiO2 |  |
| P K | -0.04 | -0.03 | -0.09 | P2O5 |  |
| S K | -0.12 | -0.08 | -0.30 | SO3 |  |
| Cl K | 0.05 | 0.03 | 0.00 |  |  |
| K K | 0.23 | 0.12 | 0.27 | K2O |  |
| Ca K | -0.07 | -0.04 | -0.09 | CaO |  |
| Fe L | 9.55 | 3.67 | 12.28 | FeO |  |
| Ni L | -0.44 | -0.16 | -0.56 | NiO |  |
| O | 44.03 | 59.01 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 9



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 = 70675

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.70 | 916002 |
|  |  |  |  |
| 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

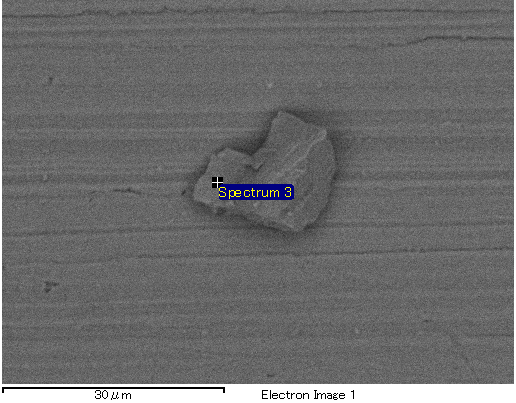
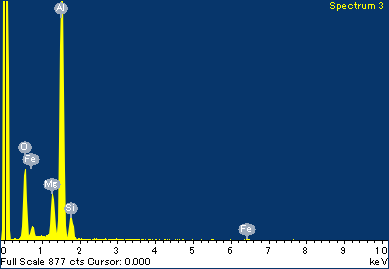
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.12 | -0.12 | -0.17 | Na2O |  |
| Mg K | 5.26 | 4.70 | 8.72 | MgO |  |
| Al K | 35.80 | 28.83 | 67.65 | Al2O3 |  |
| Si K | 4.34 | 3.36 | 9.29 | SiO2 |  |
| P K | -0.05 | -0.04 | -0.12 | P2O5 |  |
| S K | -0.13 | -0.09 | -0.31 | SO3 |  |
| Cl K | -0.30 | -0.18 | 0.00 |  |  |
| K K | -0.28 | -0.15 | -0.34 | K2O |  |
| Ca K | 0.32 | 0.17 | 0.44 | CaO |  |
| Fe L | 11.83 | 4.60 | 15.22 | FeO |  |
| Ni L | -0.07 | -0.02 | -0.09 | NiO |  |
| O | 43.39 | 58.93 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 9



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 = 69855

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.66 | 917312 |
|  |  |  |  |
| 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

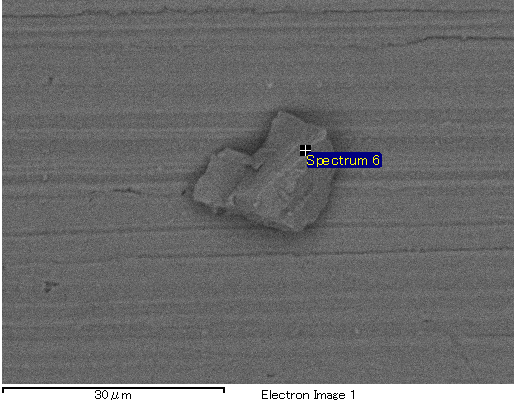
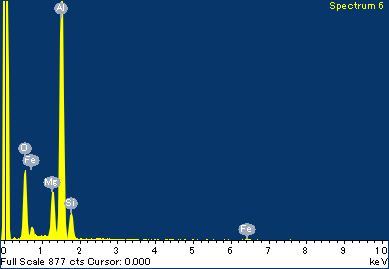
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | -0.14 | -0.13 | -0.19 | Na2O |  |
| Mg K | 4.75 | 4.25 | 7.87 | MgO |  |
| Al K | 36.35 | 29.30 | 68.67 | Al2O3 |  |
| Si K | 3.91 | 3.03 | 8.37 | SiO2 |  |
| P K | 0.11 | 0.08 | 0.25 | P2O5 |  |
| S K | -0.05 | -0.03 | -0.13 | SO3 |  |
| Cl K | 0.07 | 0.04 | 0.00 |  |  |
| K K | 0.07 | 0.04 | 0.09 | K2O |  |
| Ca K | 0.14 | 0.08 | 0.20 | CaO |  |
| Fe L | 12.00 | 4.68 | 15.44 | FeO |  |
| Ni L | -0.51 | -0.19 | -0.65 | NiO |  |
| O | 43.30 | 58.87 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 10



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 = 70359

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.62 | 916176 |
|  |  |  |  |
| 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

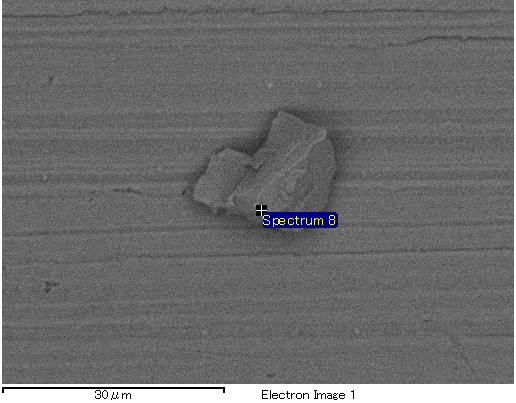
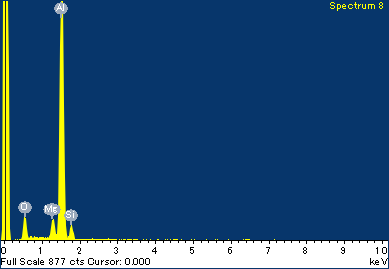
Ni Ni 1-Jun-1999 12:00 AM

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Element | Weight% | Atomic% | Compd% | Formula |  |
|  |  |  |  |  |  |
| Na K | 0.00 | 0.00 | 0.00 | Na2O |  |
| Mg K | 4.90 | 4.39 | 8.12 | MgO |  |
| Al K | 34.93 | 28.19 | 66.00 | Al2O3 |  |
| Si K | 4.65 | 3.60 | 9.94 | SiO2 |  |
| P K | 0.12 | 0.08 | 0.27 | P2O5 |  |
| S K | 0.05 | 0.03 | 0.12 | SO3 |  |
| Cl K | -0.10 | -0.06 | 0.00 |  |  |
| K K | -0.02 | -0.01 | -0.02 | K2O |  |
| Ca K | 0.41 | 0.22 | 0.57 | CaO |  |
| Fe L | 12.08 | 4.71 | 15.54 | FeO |  |
| Ni L | -0.34 | -0.12 | -0.43 | NiO |  |
| O | 43.33 | 58.98 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 10



Spectrum Label: Spectrum 8

Livetime 90.0 s

Acquisition geometry ( degrees ):

Tilt = 0.0

Azimuth = 0.0

Elevation = 30.0

Accelerating voltage = 10.00 kV

Total spectrum counts = 66257

|  |  |  |  |
| --- | --- | --- | --- |
| Sample data : | Energy (eV) | Resn. (eV) | Area |
| Strobe : | 3.8 | 52.68 | 917706 |
|  |  |  |  |
| 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 | -0.07 | -0.06 | -0.09 | Na2O |  |
| Mg K | 2.76 | 2.32 | 4.58 | MgO |  |
| Al K | 46.21 | 34.94 | 87.32 | Al2O3 |  |
| Si K | 3.49 | 2.54 | 7.48 | SiO2 |  |
| P K | 0.14 | 0.09 | 0.32 | P2O5 |  |
| S K | -0.11 | -0.07 | -0.26 | SO3 |  |
| Cl K | 0.05 | 0.03 | 0.00 |  |  |
| K K | 0.00 | 0.00 | 0.00 | K2O |  |
| Ca K | 0.25 | 0.13 | 0.35 | CaO |  |
| Fe L | 0.61 | 0.22 | 0.78 | FeO |  |
| Ni L | -0.41 | -0.14 | -0.52 | NiO |  |
| O | 47.06 | 60.00 |  |  |  |
| Totals | 100.00 |  |  |  |  |

Project: Project 1

Owner: Operator

Site: Site of Interest 10