Zachén, G. 2018

Bilaga till examensarbetet ”Mesosideriter – redogörelse av bildningsprocesser samt SEM-analys av Vaca Muertameteoriten”

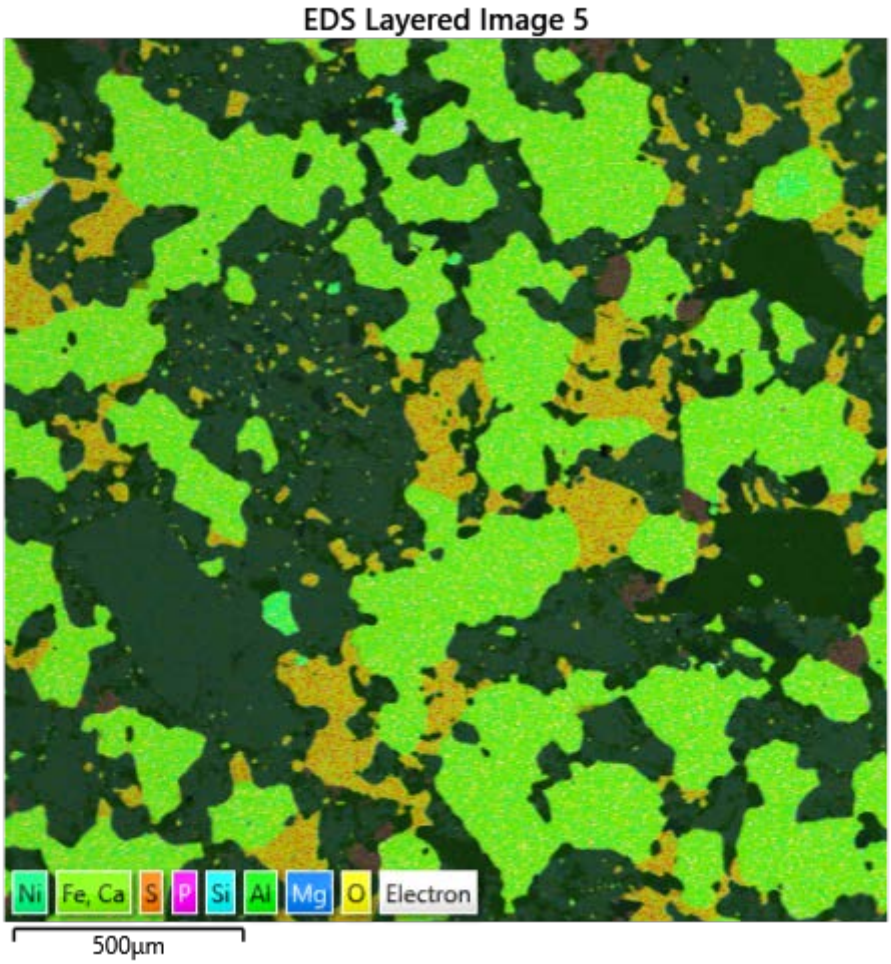
LUNDS UNIVERSITET

OXFORD INSTRUMENTS
The Business of Science®

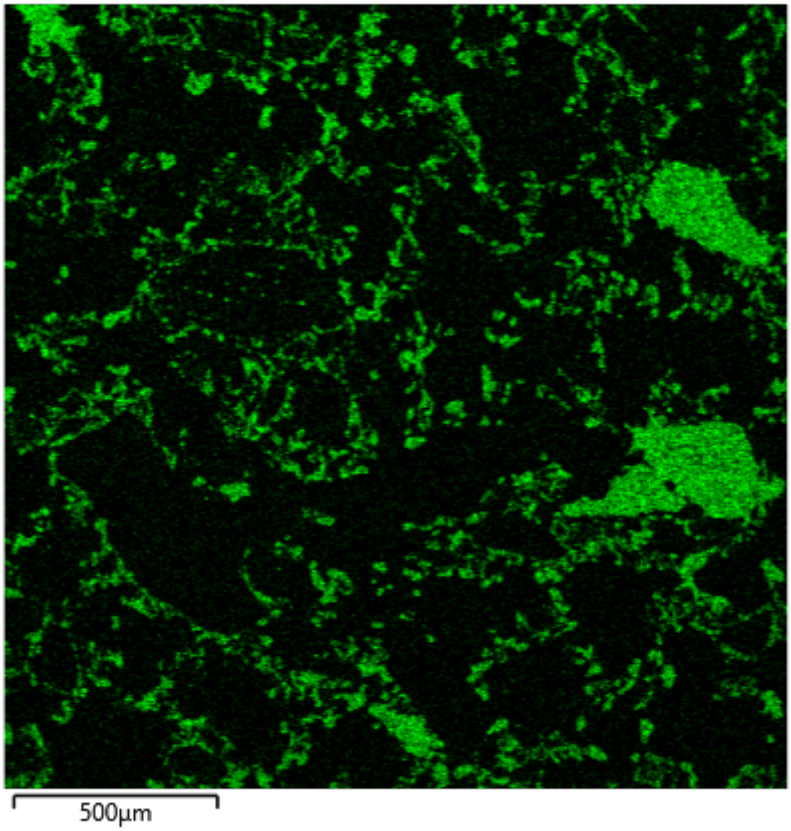
Innehåll

Denna bilaga innehåller alla EDS-bilder, lagrade och individuella, samt BSE-bilder för alla områden. Bilagan innehåller också alla spektrum för provtagningspunkter. Bilagan är ordnad efter områdesnummer.

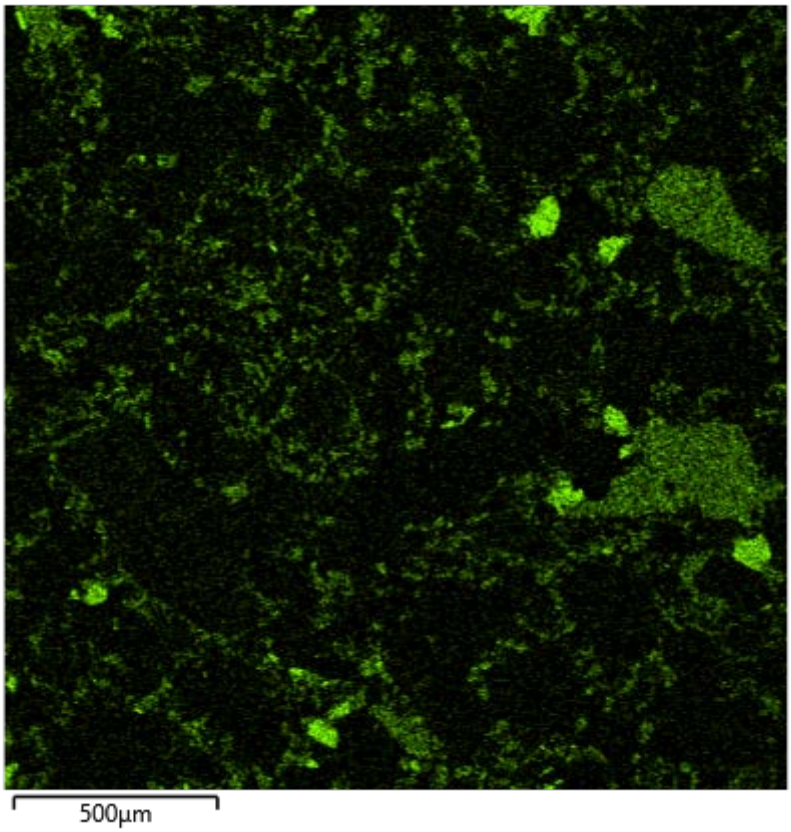
Område 1

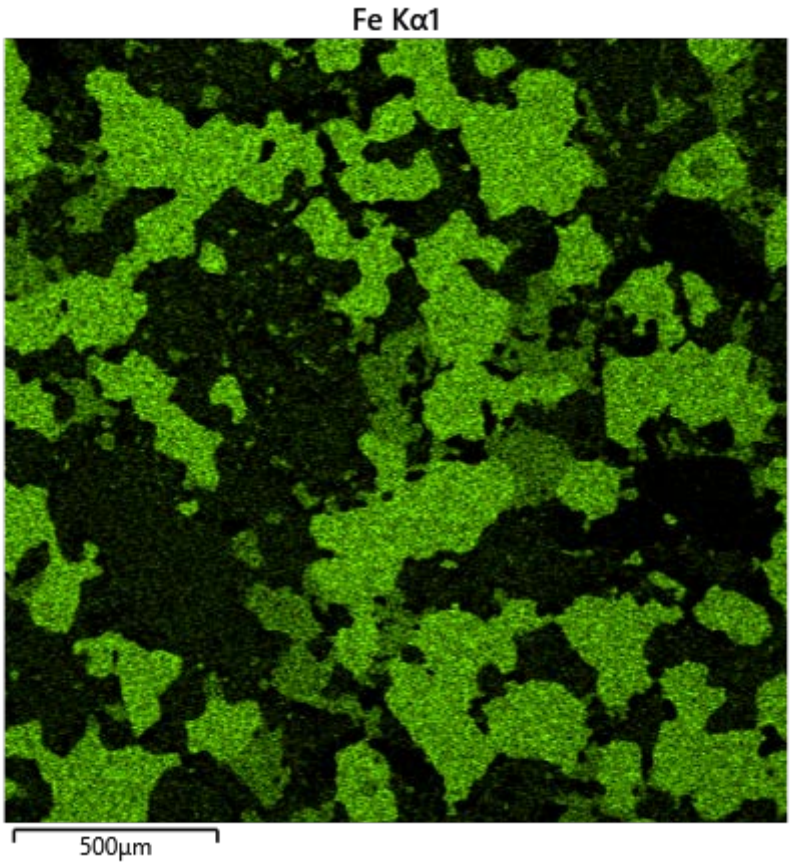


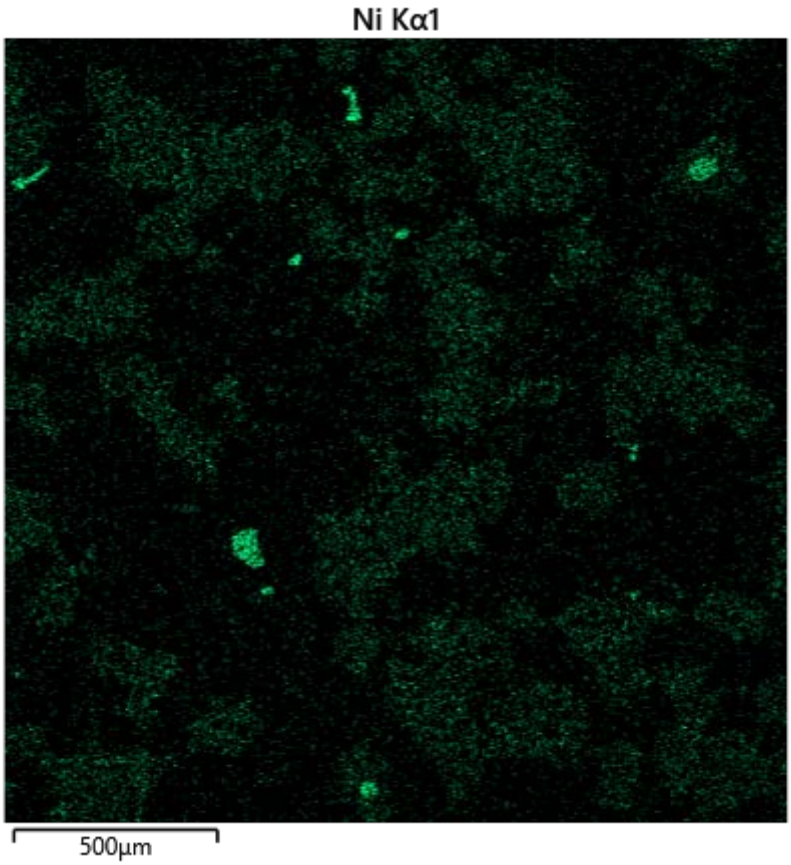
Al Kα1

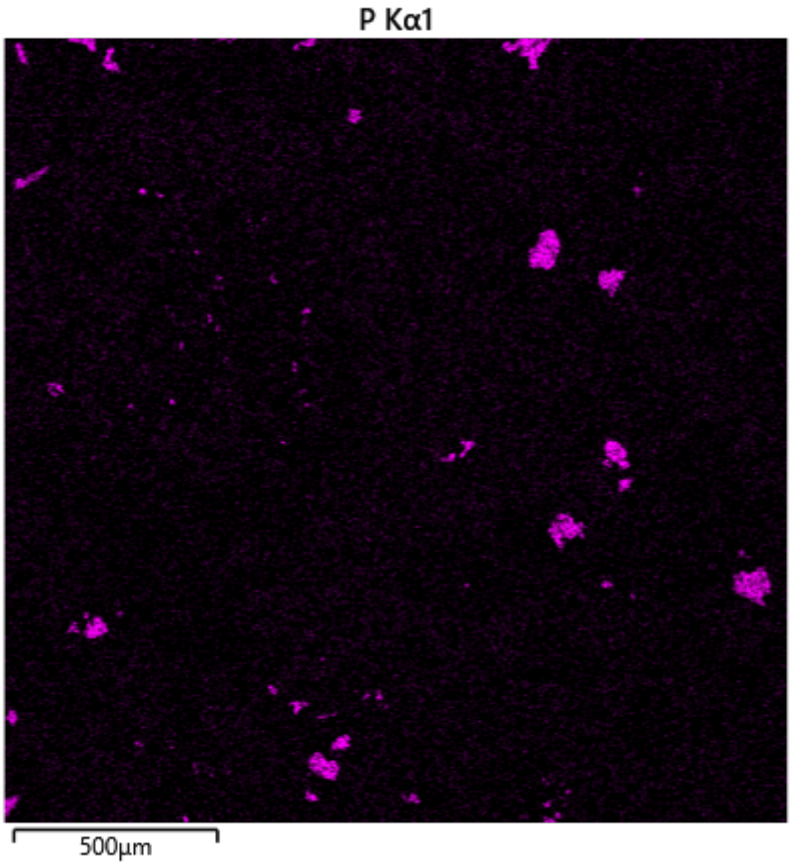


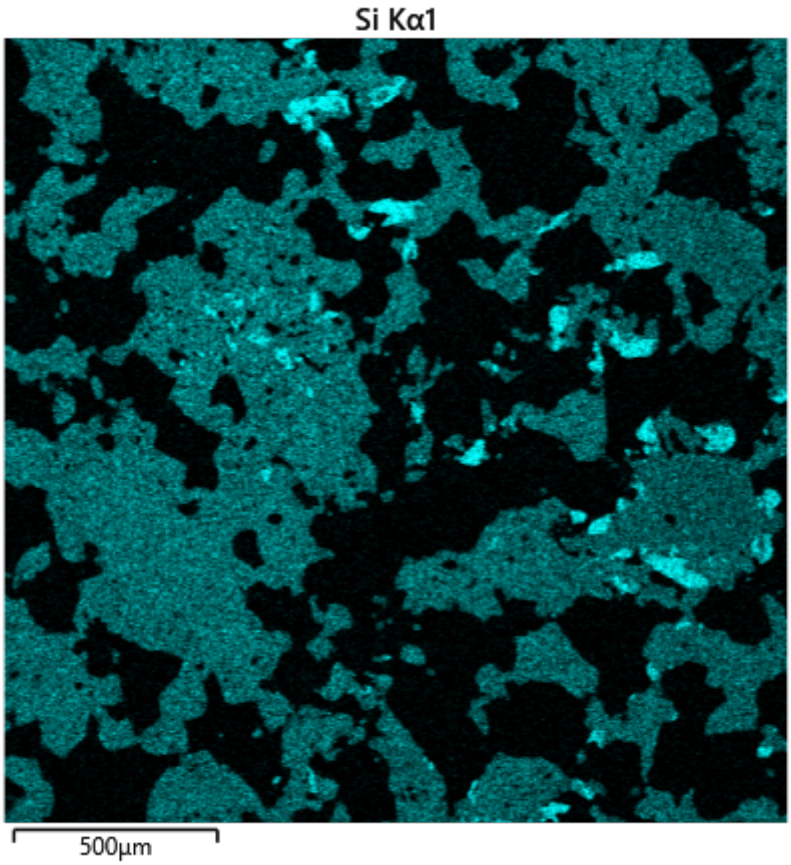
Ca Kα1

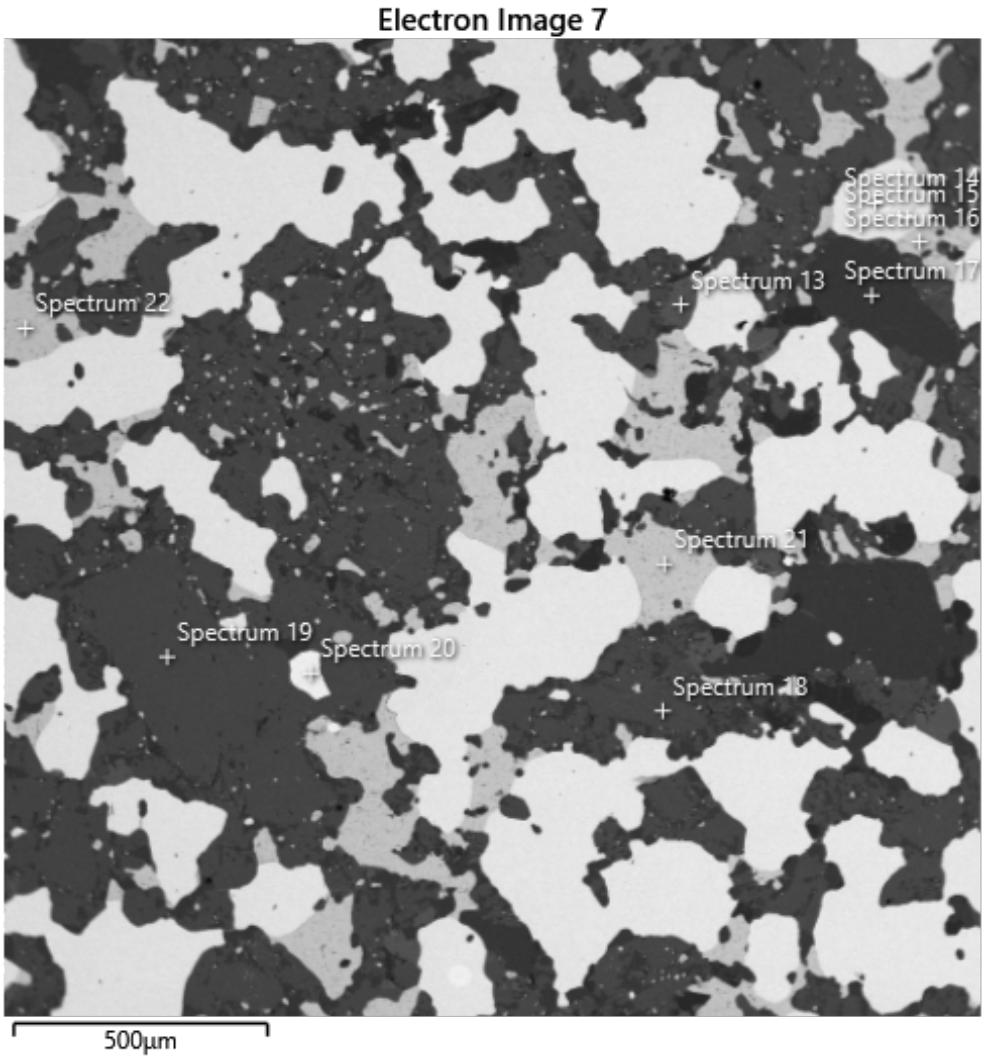


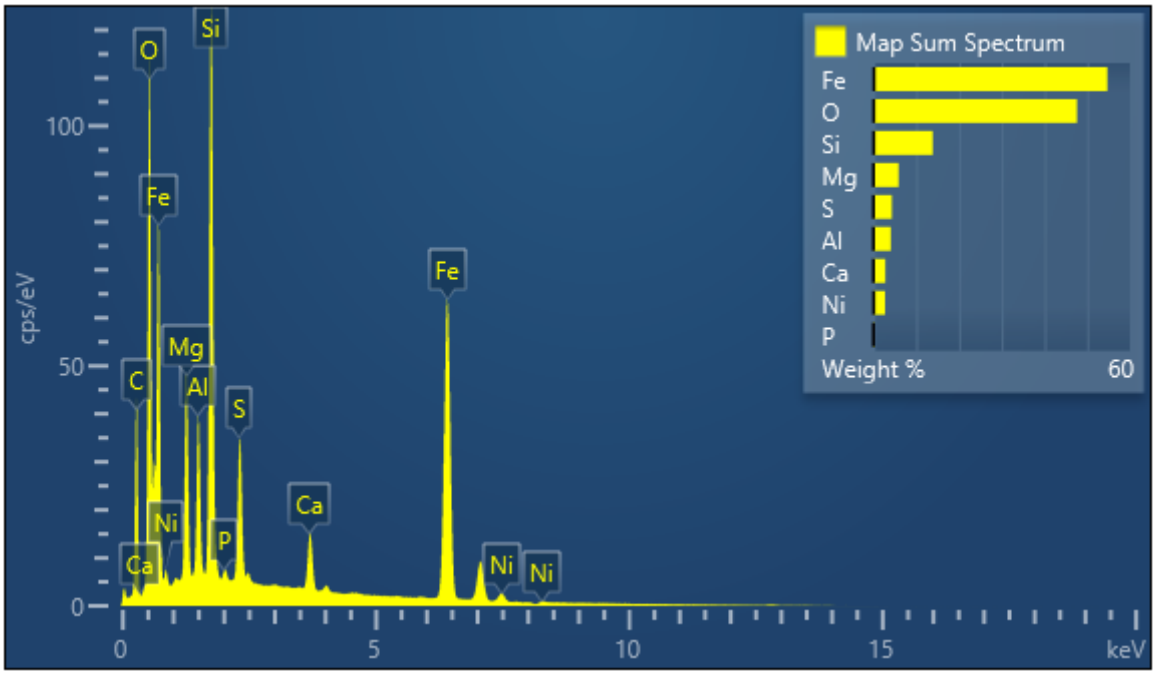

Fe Kα1
500µm
Mg Kα1_2
500µm

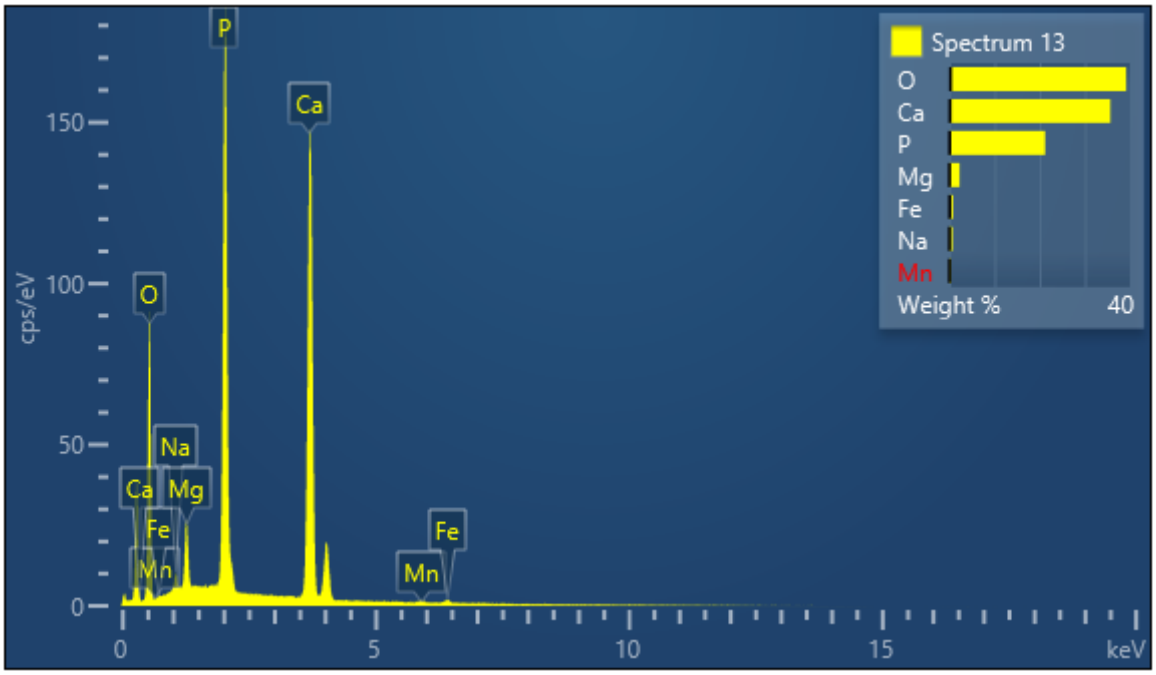

Ni Kα1
500µm
O Kα1
500µm


P Kα1
500µm
S Kα1
500µm


Si Kα1
500µm


Electron Image 7
Spectrum 14
Spectrum 15
Spectrum 16
Spectrum 17
Spectrum 13
Spectrum 22
Spectrum 21
Spectrum 19
Spectrum 20
Spectrum 18
500µm


Map Sum Spectrum
Fe
O
Si
Mg
S
Al
Ca
Ni
P
Weight %
60
cps/eV
100
50
0
0
5
10
15
keV


Spectrum 13
O
Ca
P
Mg
Fe
Na
Mn
Weight %
40
cps/eV
150
100
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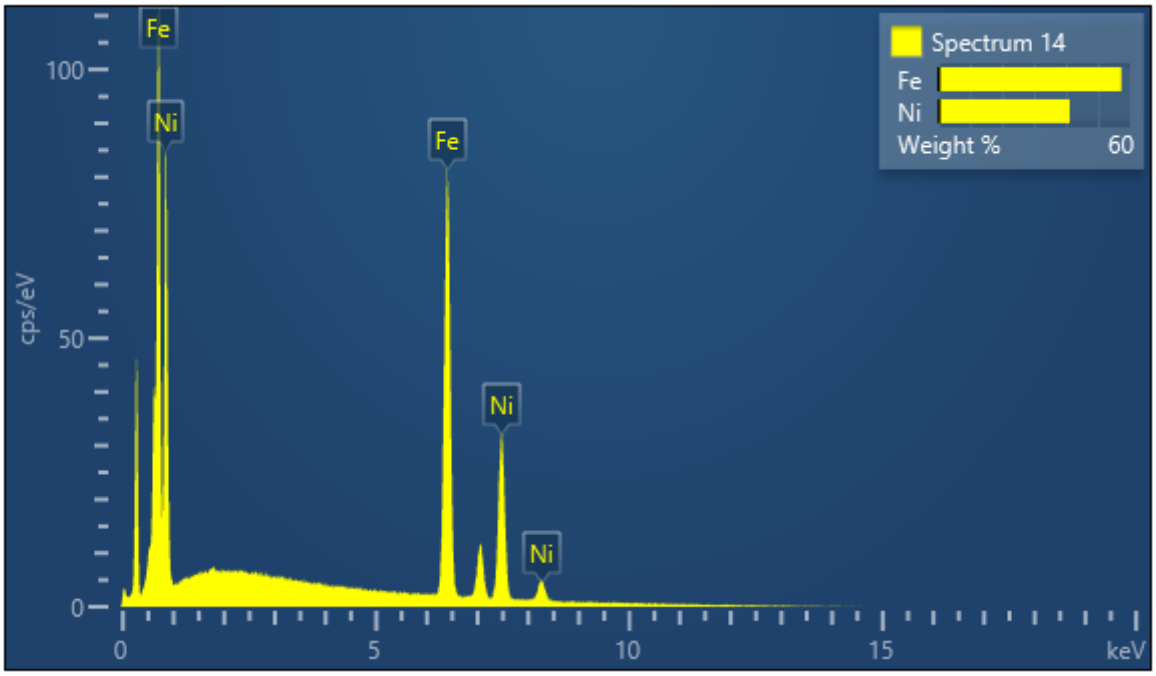
0
O
P
Ca
Na
Ca
Mg
Fe
Mn
Fe
Mn
0
5
10
15
keV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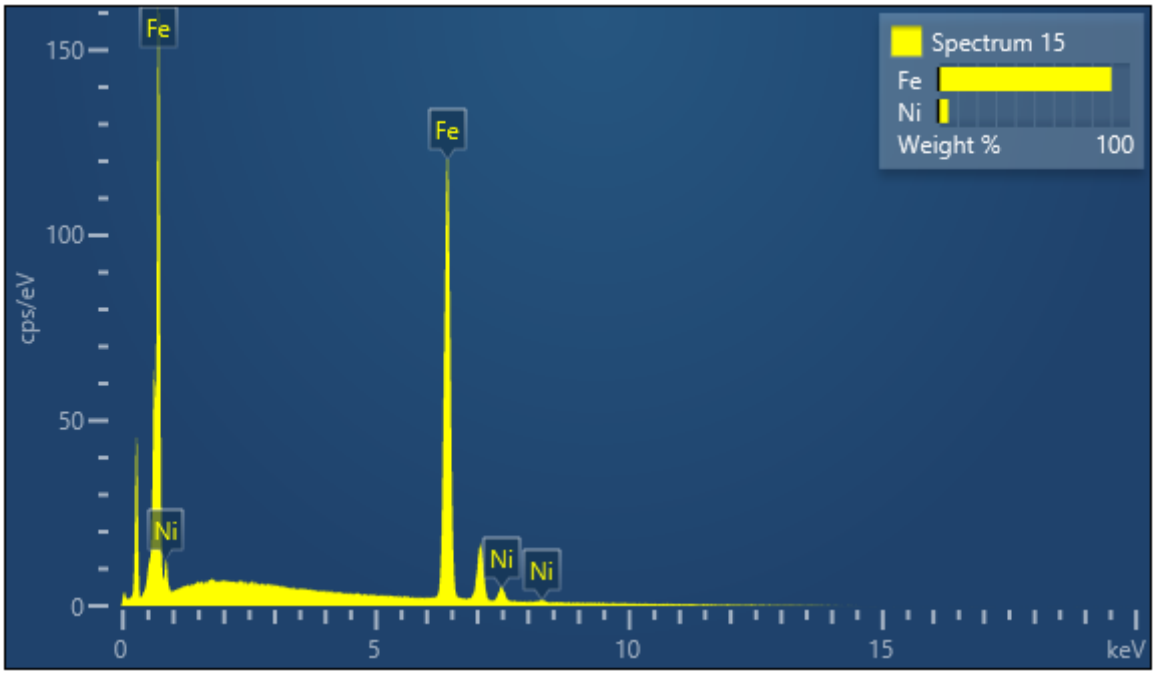
Fe
Ni
Weight %
60
cps/eV
100
50
0
Fe
Ni
Fe
Ni
Ni
0
5
10
15
keV


Spectrum 15
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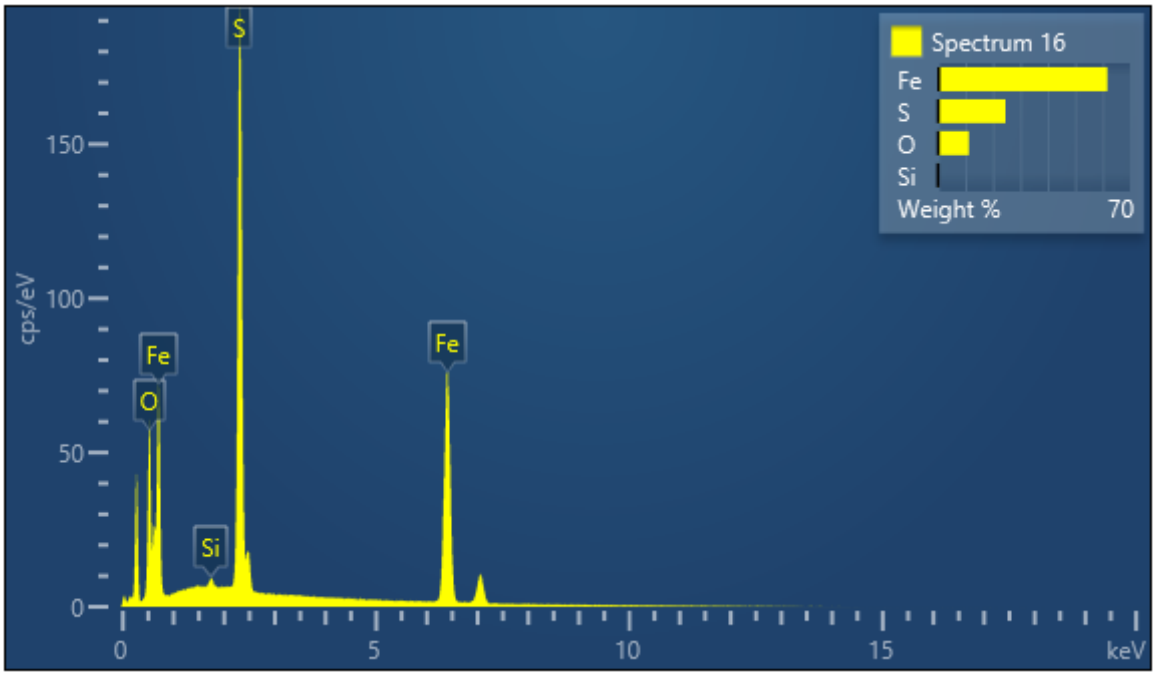
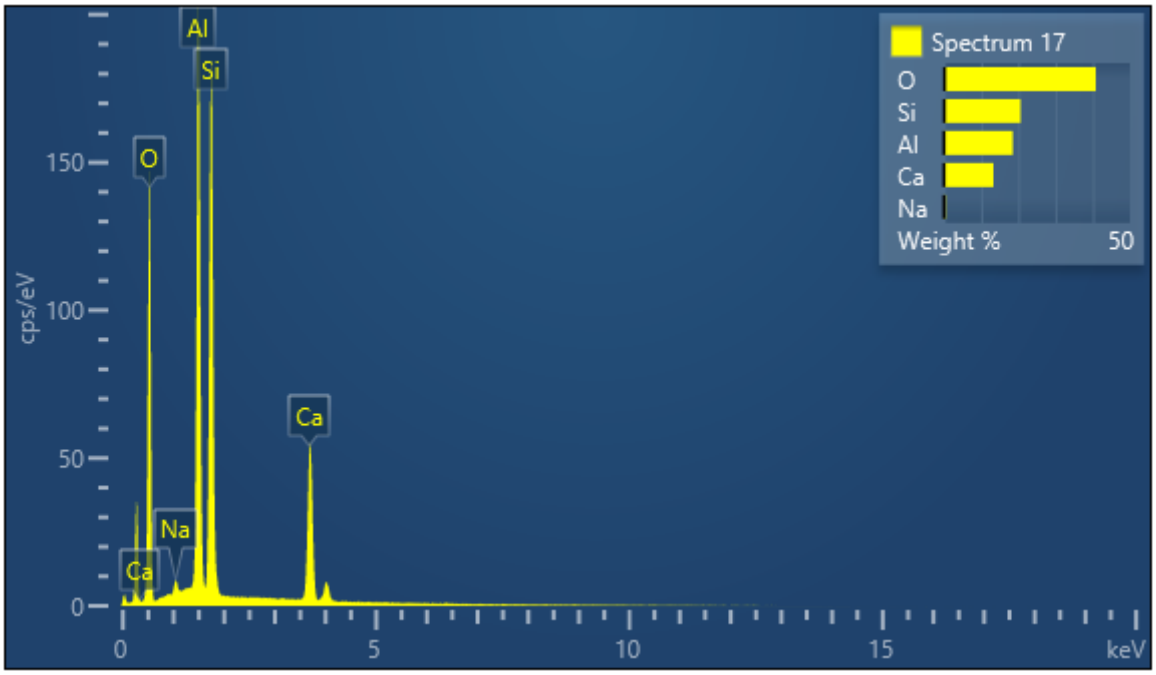
Ni
Weight %
100
Fe
Fe
Ni
Ni
Ni
cps/eV
150
100
50
0
0
5
10
15
keV


Spectrum 16
Fe
S
O
Si
Weight %
70
S
Fe
Fe
O
Si
cps/eV
150
100
50
0
0
5
10
15
keV


Spectrum 17
O
Si
Al
Ca
Na
Weight %
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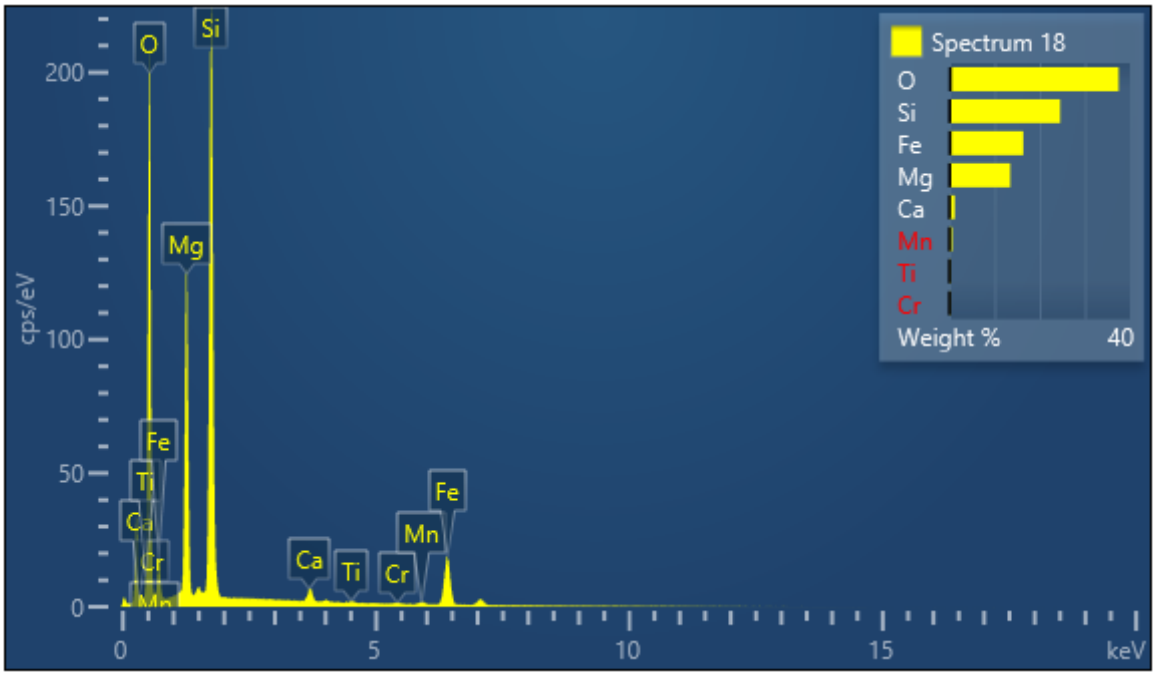
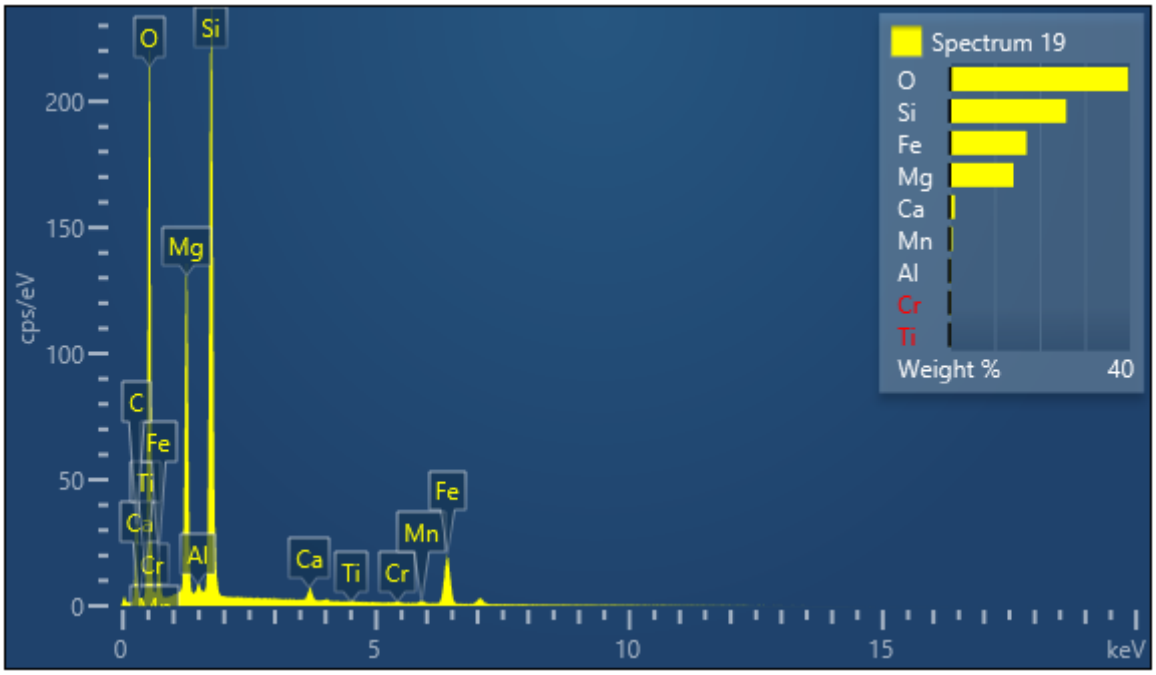
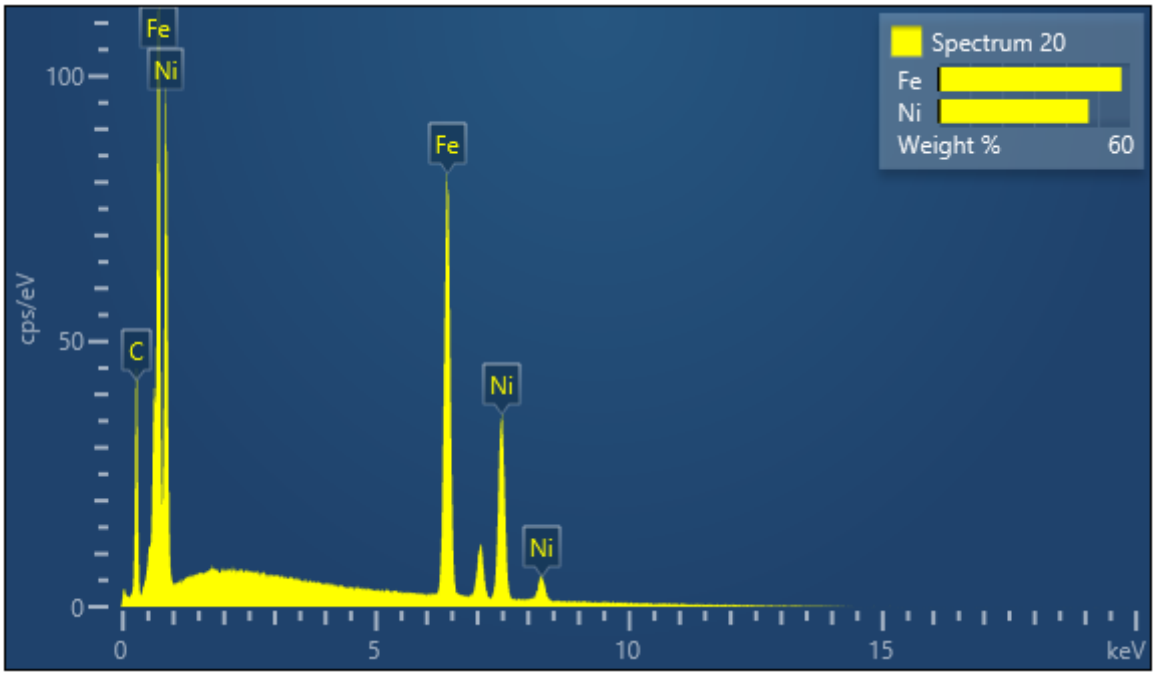
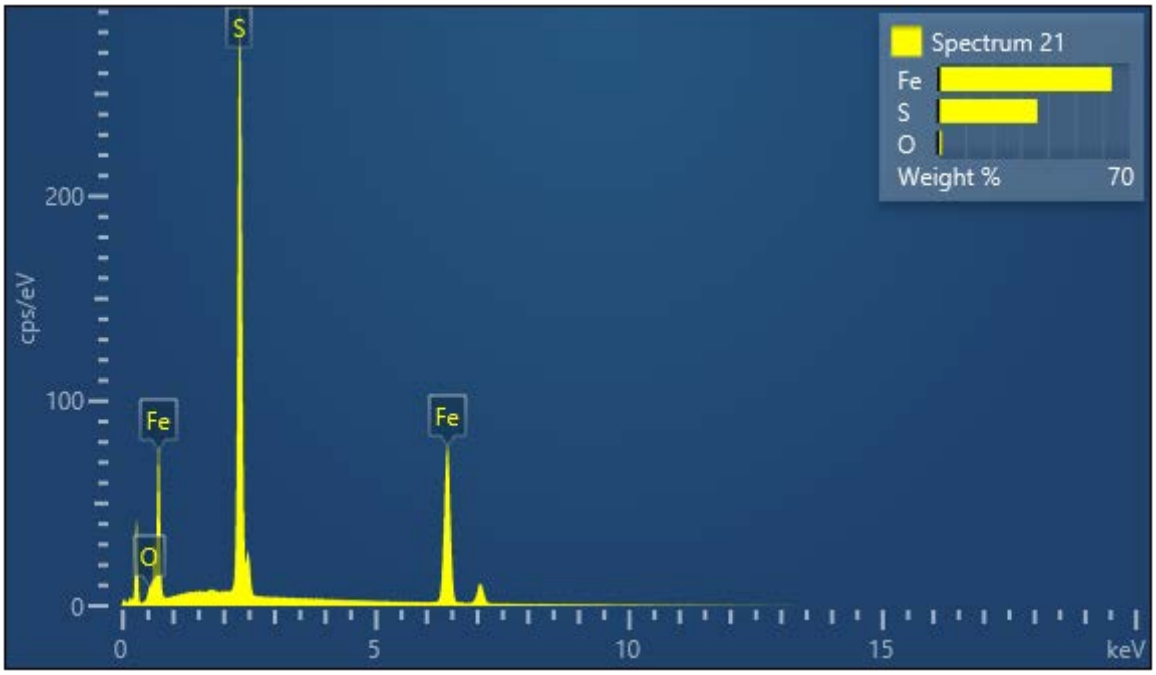
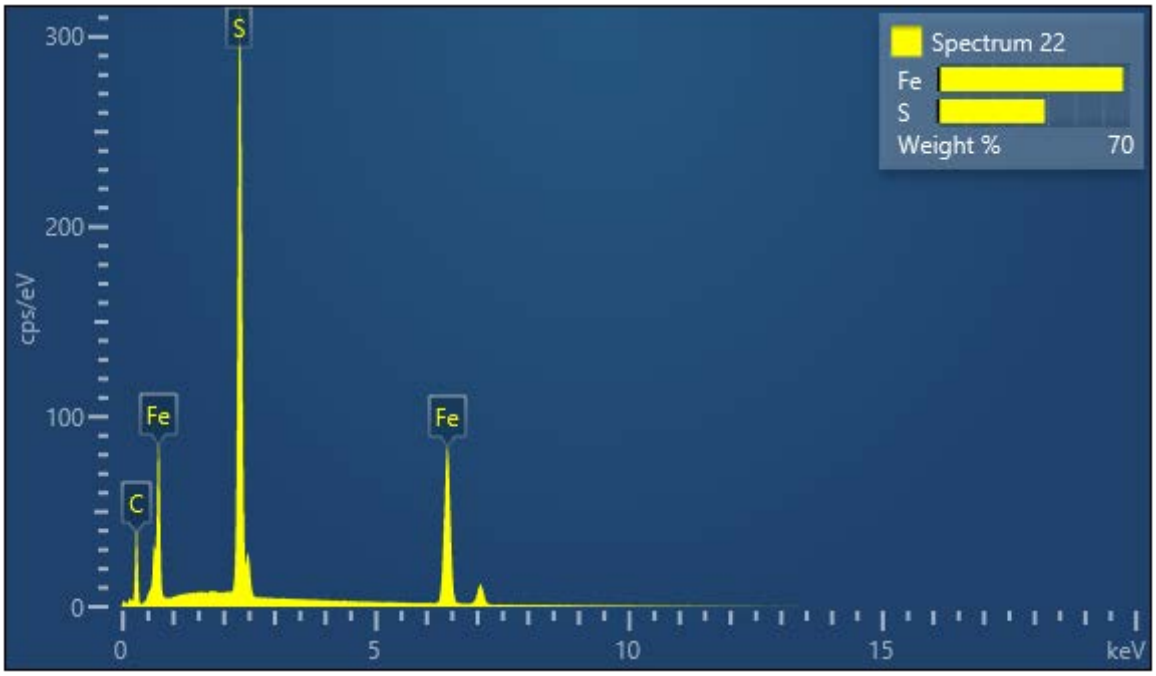
cps/eV
150
100
50
0
Al
Si
O
Ca
Na
Ca
0
5
10
15
keV


Spectrum 18
O
Si
Fe
Mg
Ca
Mn
Ti
Cr
Weight %
40
cps/eV
200
150
100
50
0
O
Si
Mg
Fe
Ti
Ca
Cr
Ca
Ti
Cr
Mn
Fe
0
5
10
15
keV

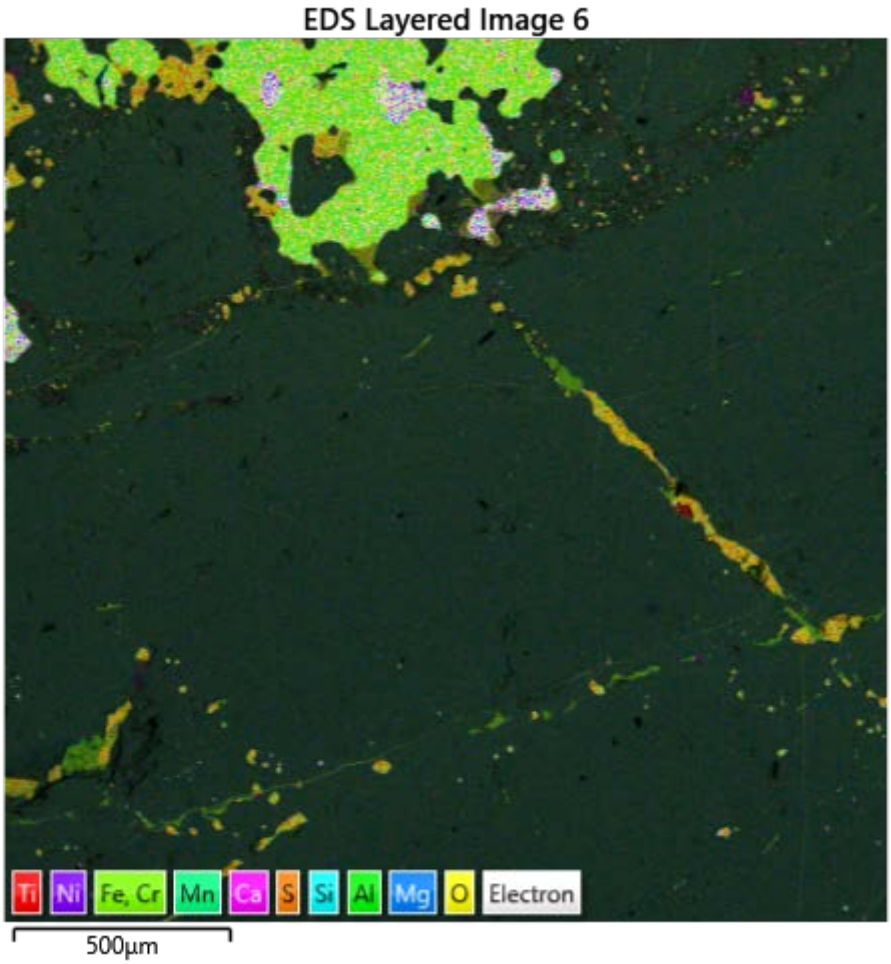

Spectrum 19
O
Si
Fe
Mg
Ca
Mn
Al
Cr
Ti
Weight %
40
cps/eV
keV
O
Si
Mg
C
Fe
Ti
Ca
Cr
Al
Ca
Ti
Cr
Mn
Fe

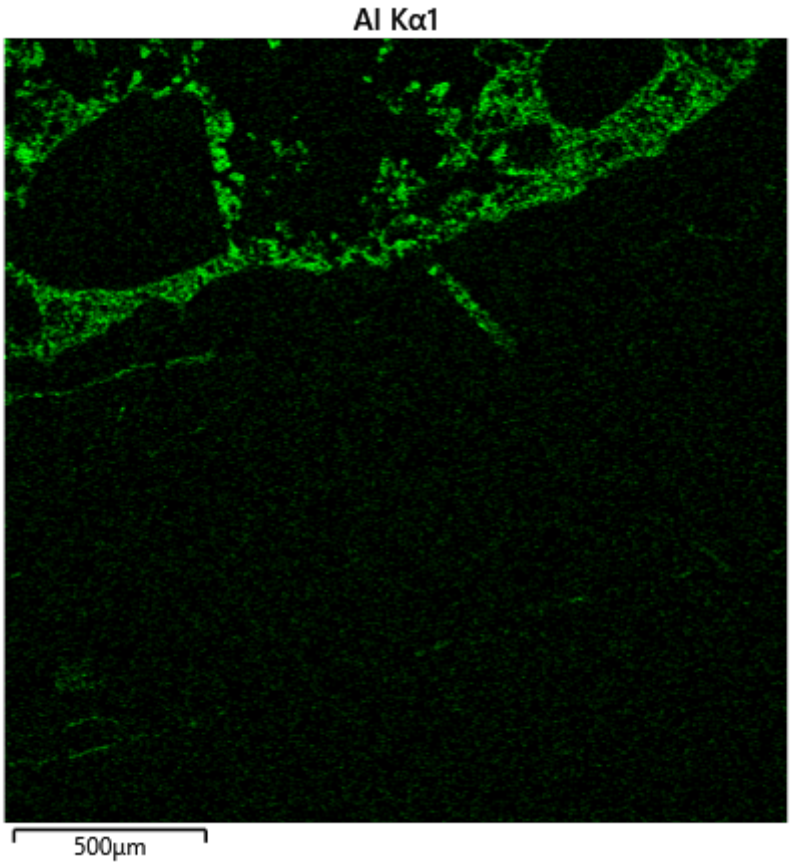

Spectrum 20
Fe
Ni
Weight %
60
cps/eV
keV
Fe
Ni
C
Fe
Ni
Ni

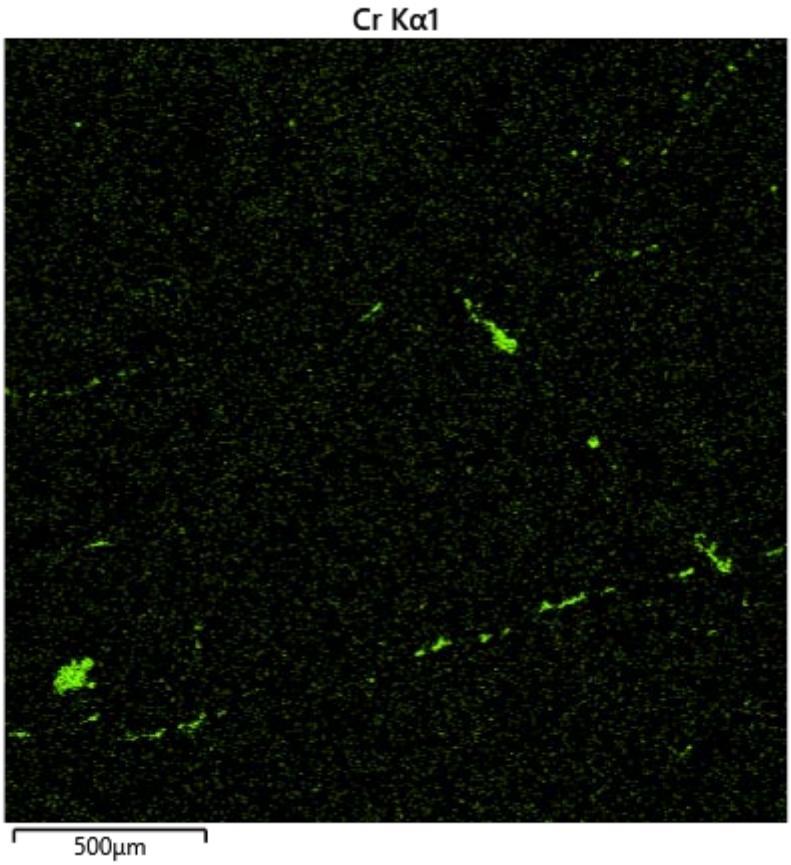

Spectrum 21
Fe
S
O
Weight %
70
S
Fe
Fe
O
200
100
0
cps/eV
0
5
10
15
keV


Spectrum 22
Fe
S
Weight %
70
S
Fe
Fe
C
300
200
100
0
cps/eV
0
5
10
15
keV

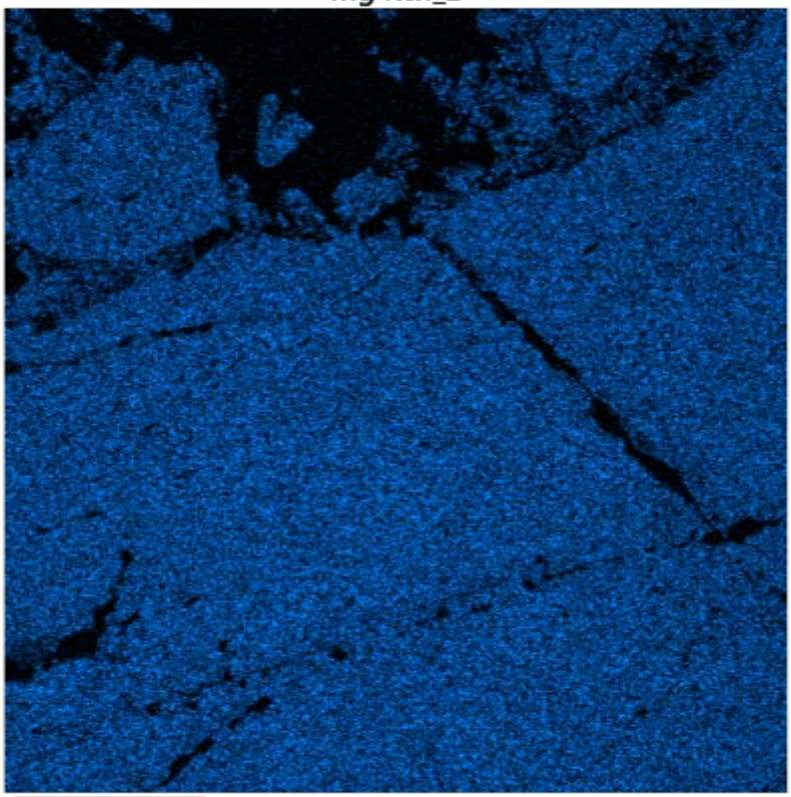
Område 2



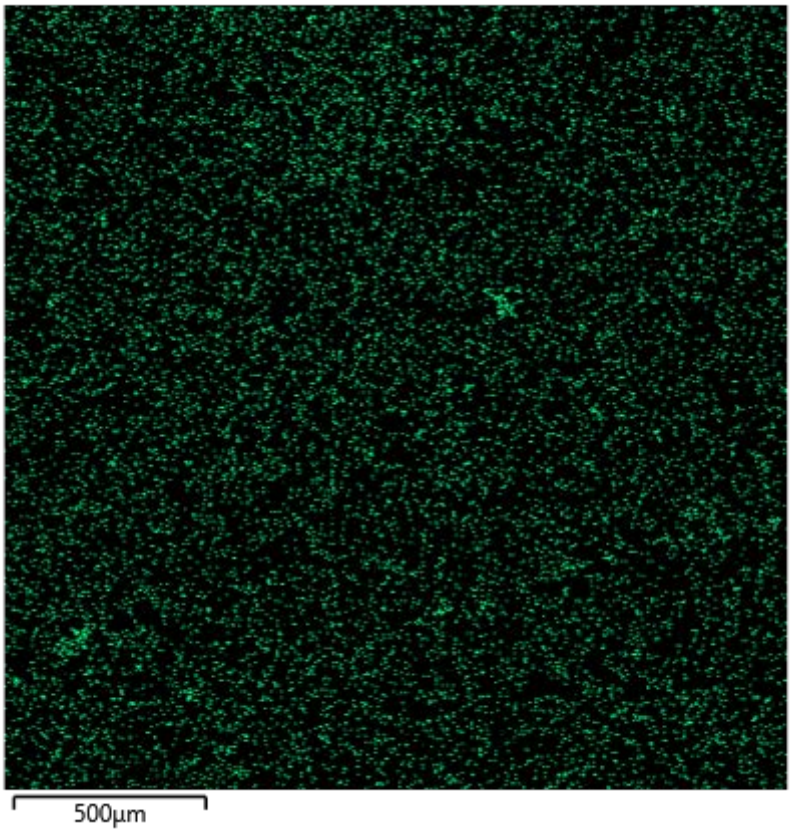

Al Kα1
500µm
Ca Kα1
500µm

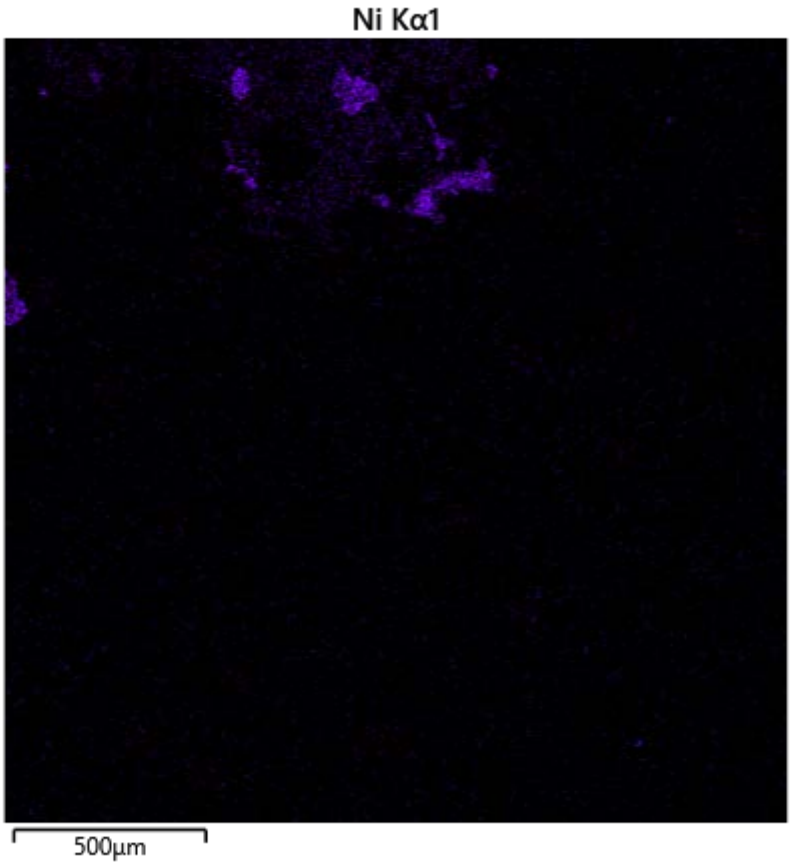

Cr Kα1
500µm
Fe Kα1
500µm

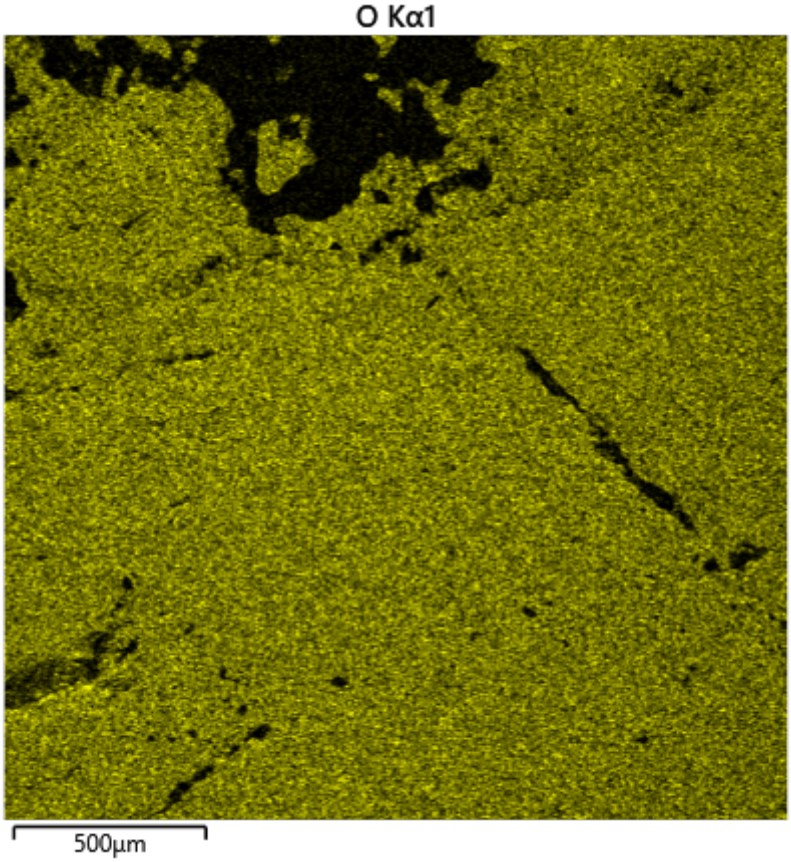
Mg Kα1_2

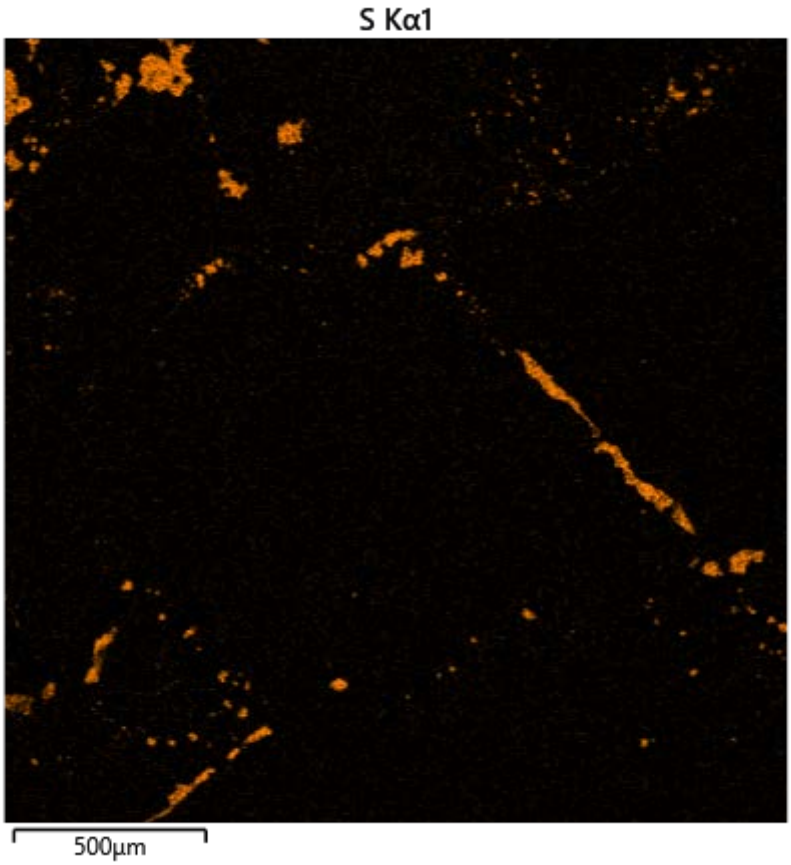


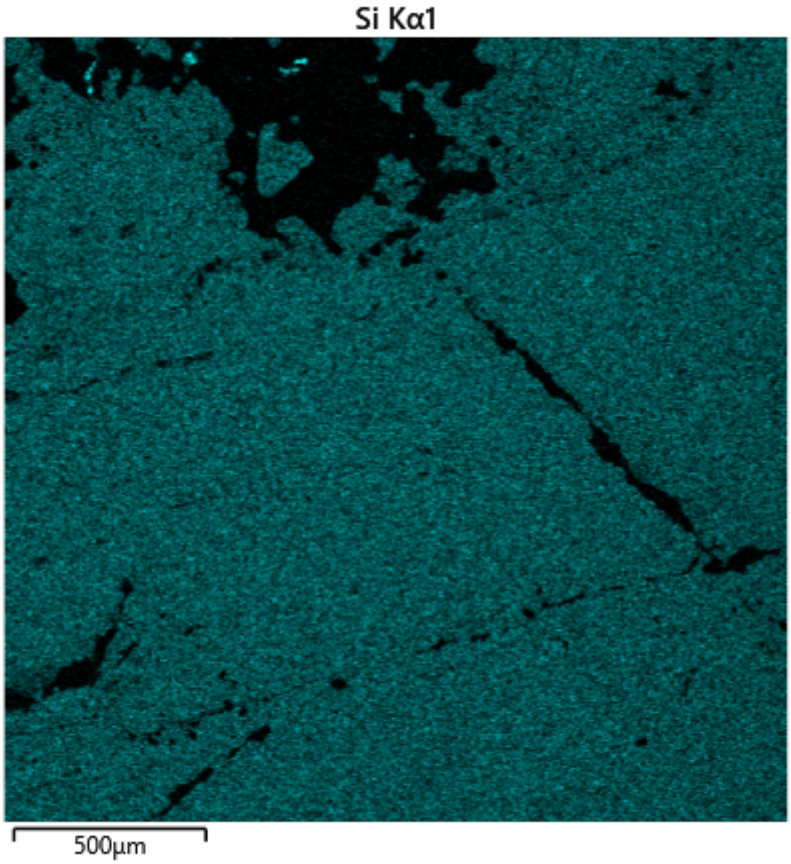
Mn Kα1

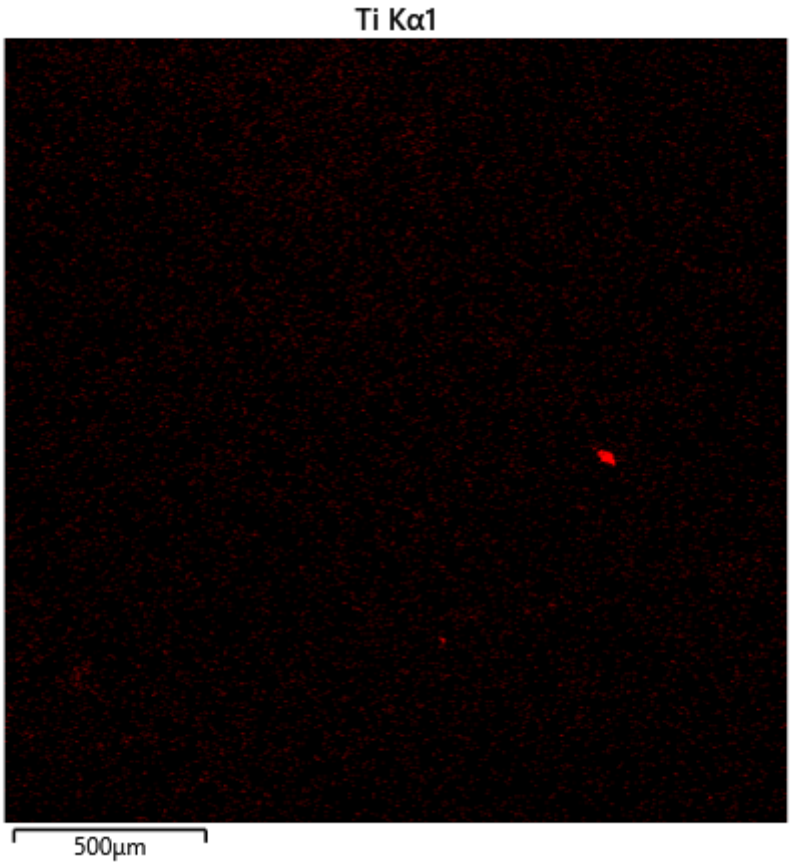


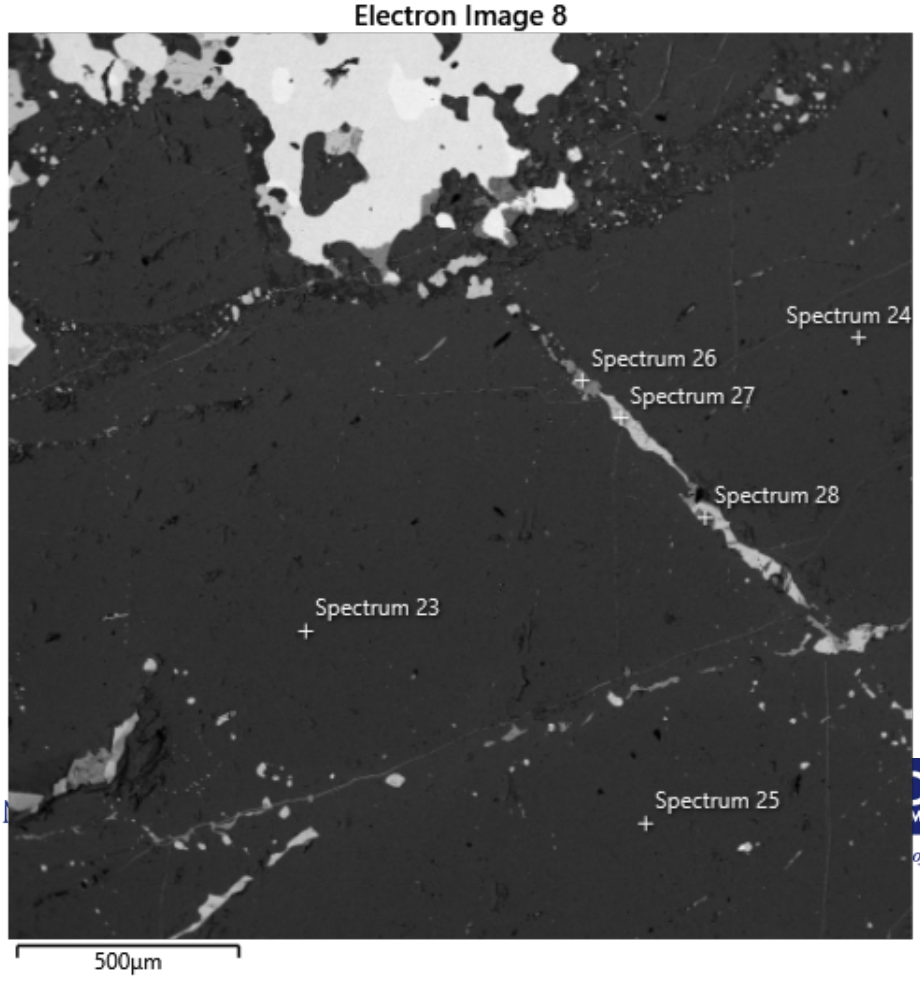

Ni Kα1
500µm

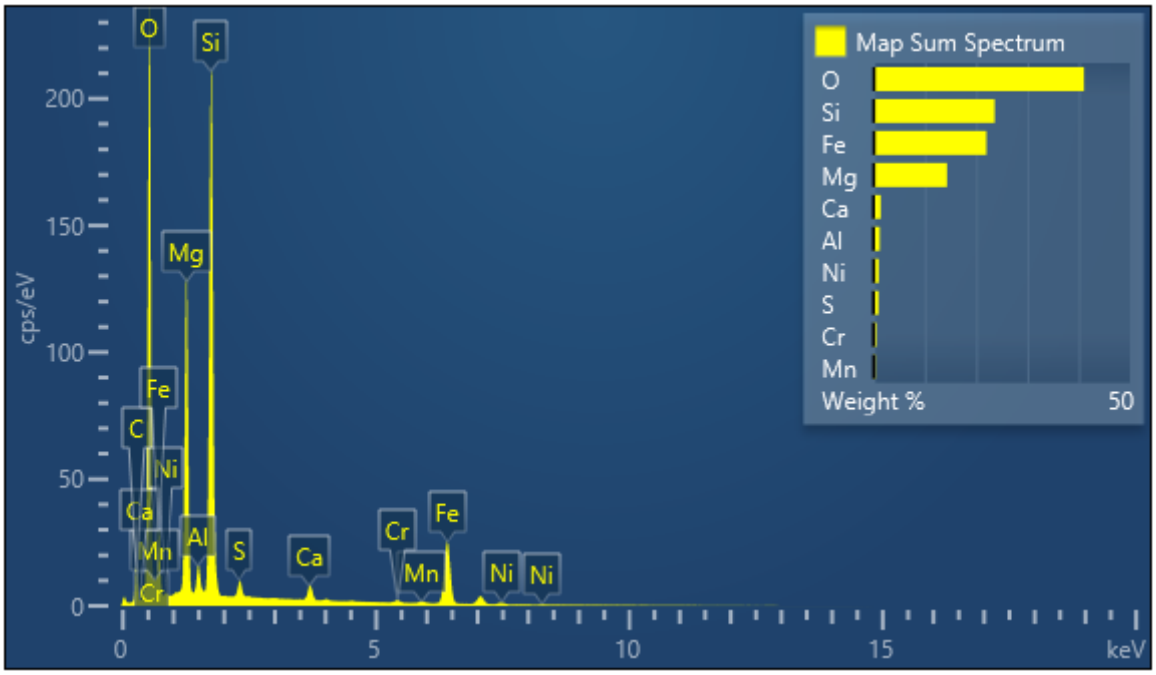

O Kα1
500µm

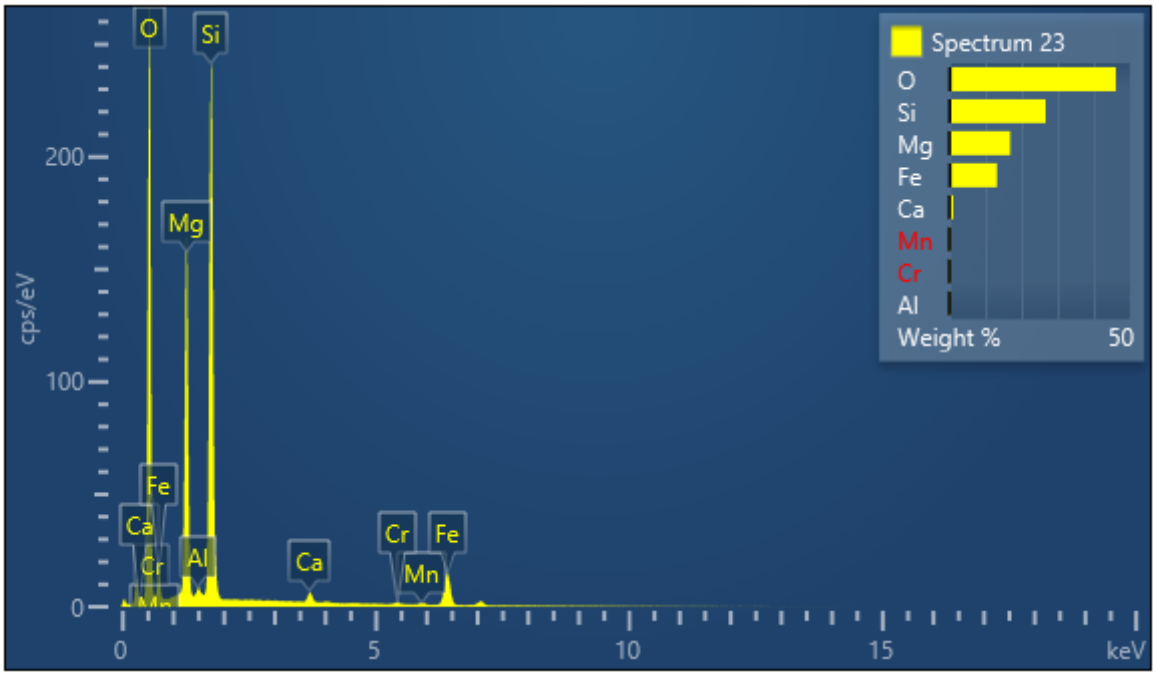

S Kα1
500µm

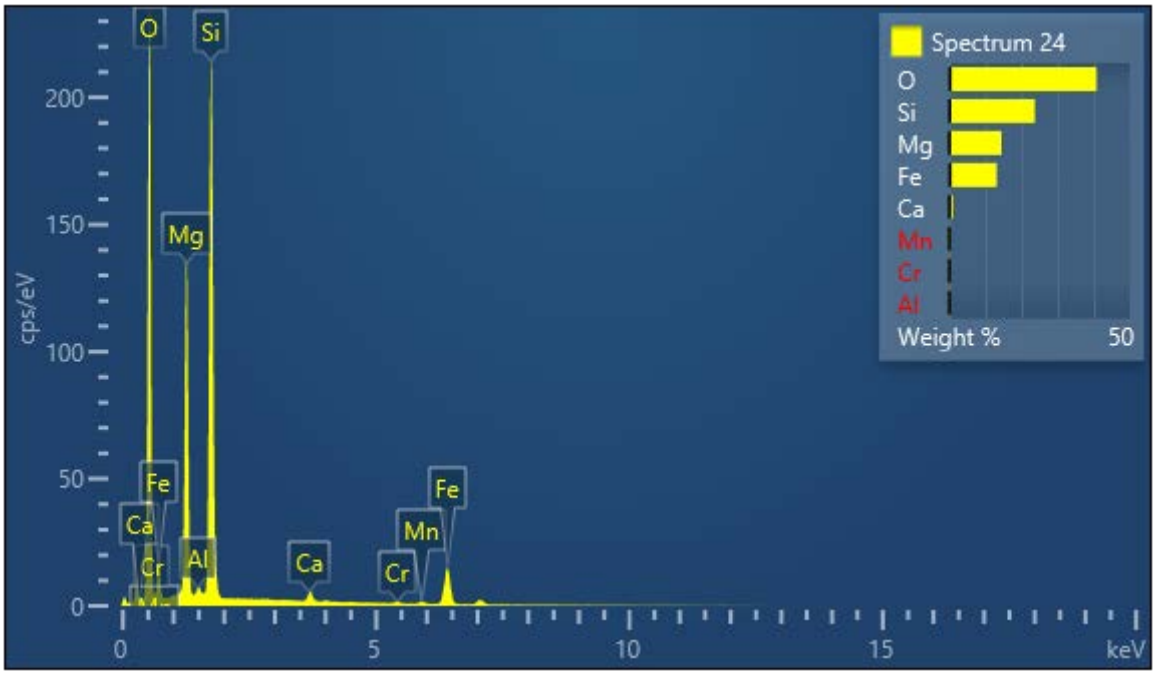

Si Kα1
500µm

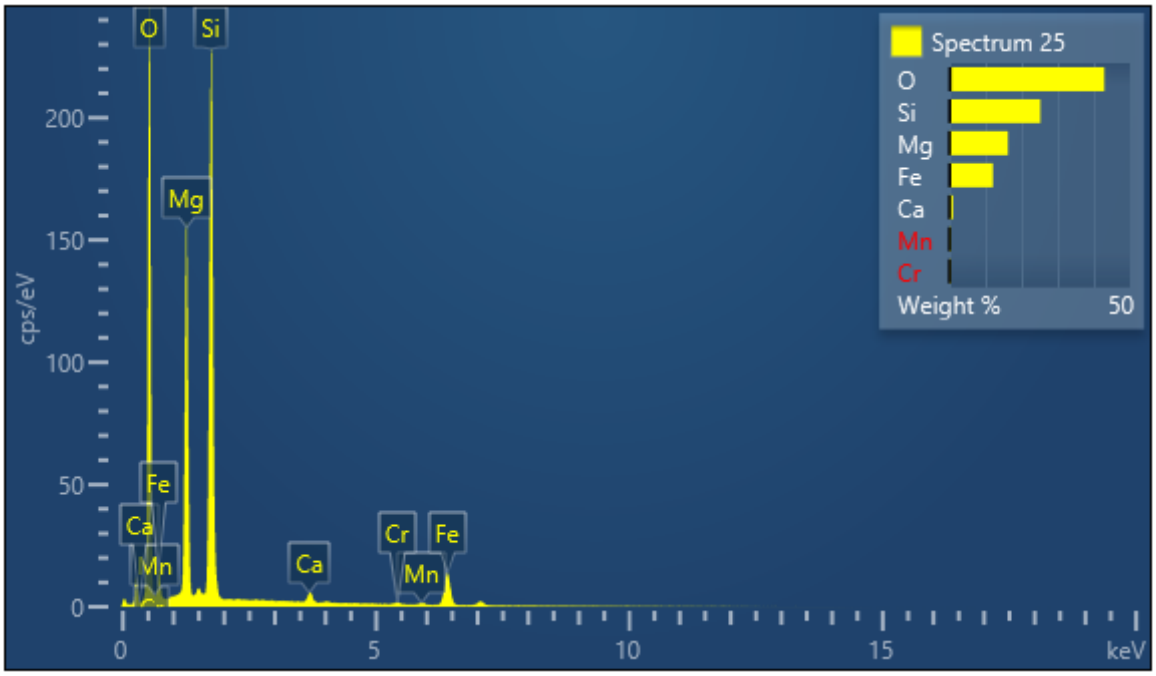

Ti Kα1
500µm

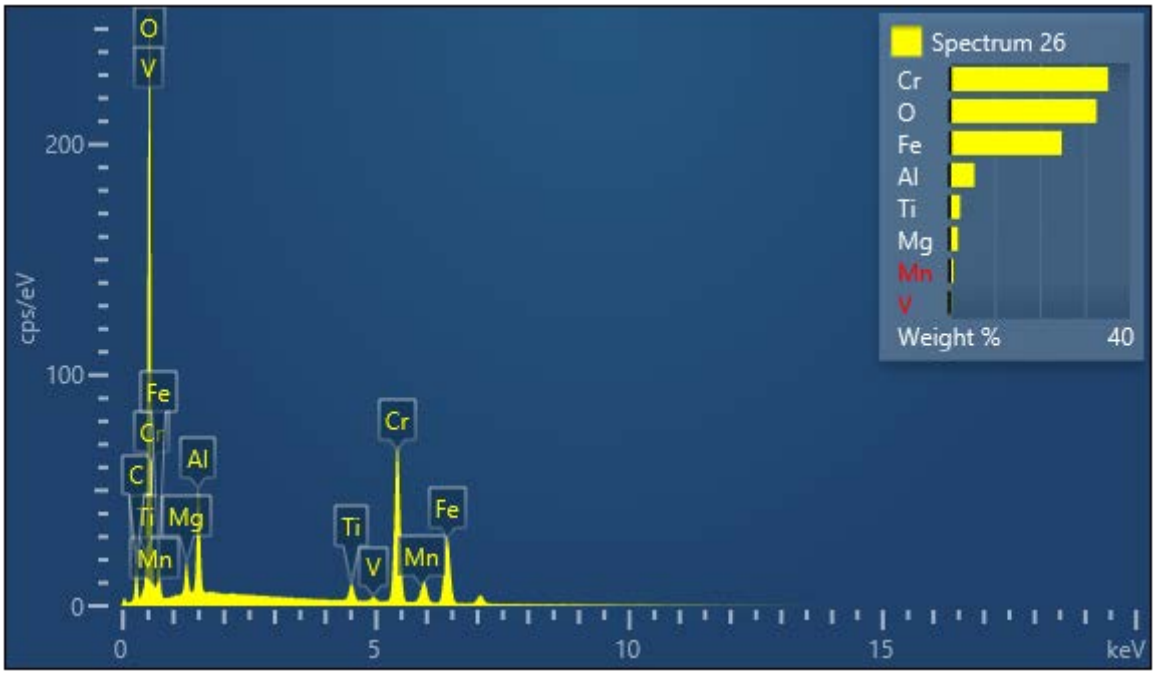

Electron Image 8
Spectrum 24
Spectrum 26
Spectrum 27
Spectrum 28
Spectrum 23
Spectrum 25
500µm

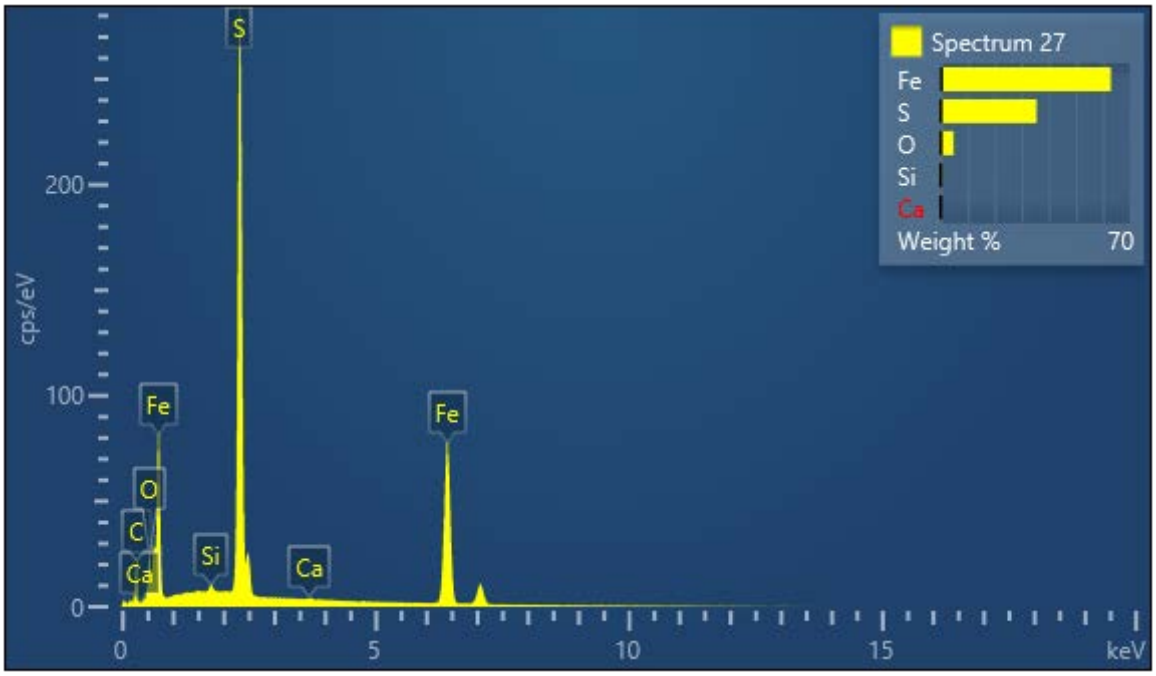

Map Sum Spectrum
O
Si
Fe
Mg
Ca
Al
Ni
S
Cr
Mn
Weight %
50
cps/eV
keV
0
5
10
15
100
200
O
Si
Mg
Fe
C
Ni
Ca
Mn
Cr
Al
S
Ca
Cr
Fe
Mn
Ni
Ni

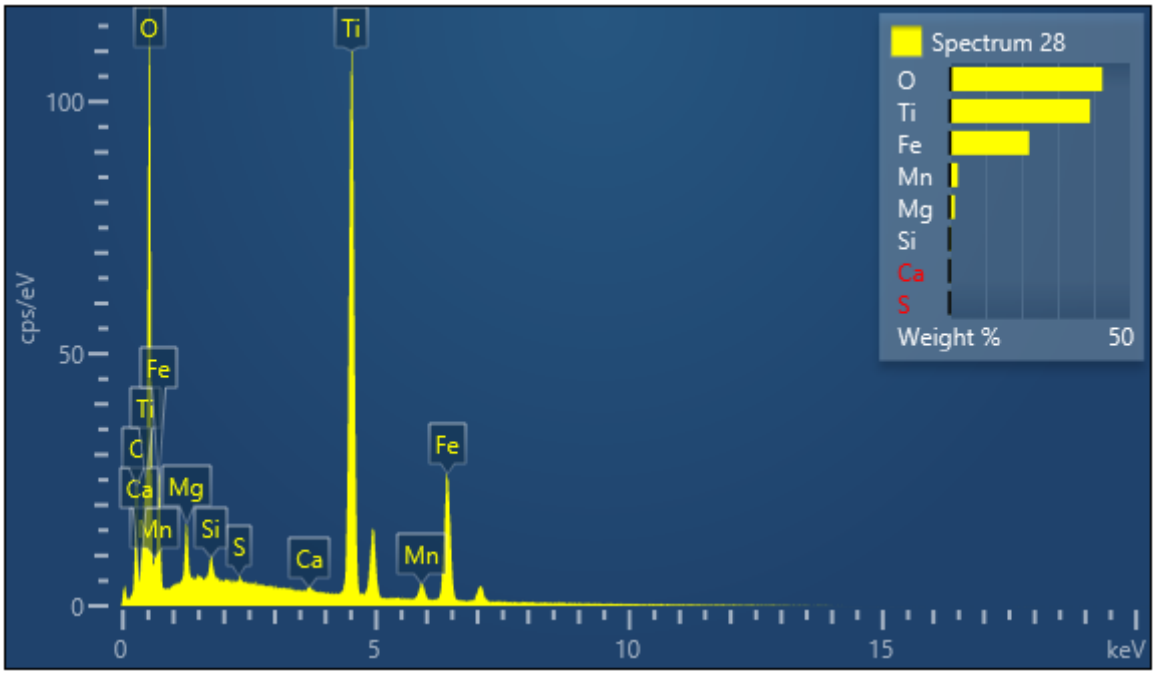

Spectrum 23
O
Si
Mg
Fe
Ca
Mn
Cr
Al
Weight %
50
cps/eV
keV
0
5
10
15
100
200
O
Si
Mg
Fe
Ca
Cr
Al
Ca
Cr
Fe
Mn


Spectrum 24
O
Si
Mg
Fe
Ca
Mn
Cr
Al
Weight %
50
cps/eV
keV
0
5
10
15
50
100
150
200

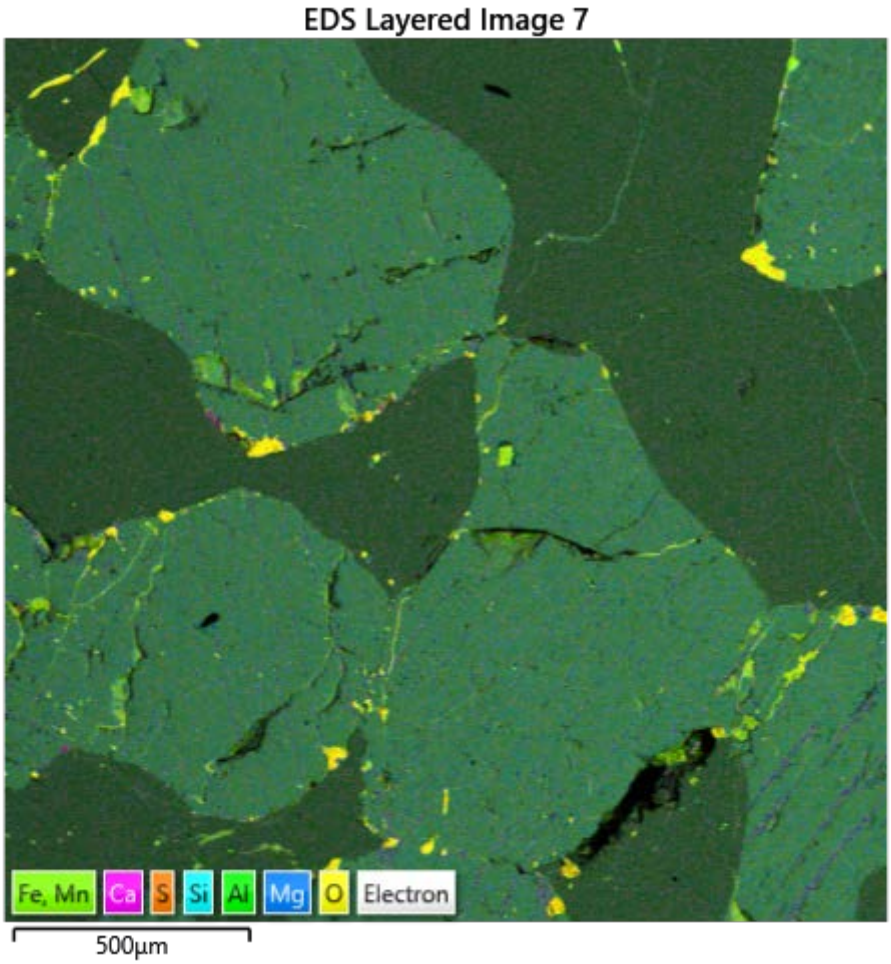

Spectrum 25
O
Si
Mg
Fe
Ca
Mn
Cr
Weight %
50
cps/eV
keV
0
5
10
15
50
100
150
200


Spectrum 26
Cr
O
Fe
Al
Ti
Mg
Mn
V
Weight %
40
cps/eV
200
100
0
O
V
Fe
Cr
C
Al
Ti
Mg
Mn
Ti
V
Cr
Mn
Fe
0
5
10
15
keV

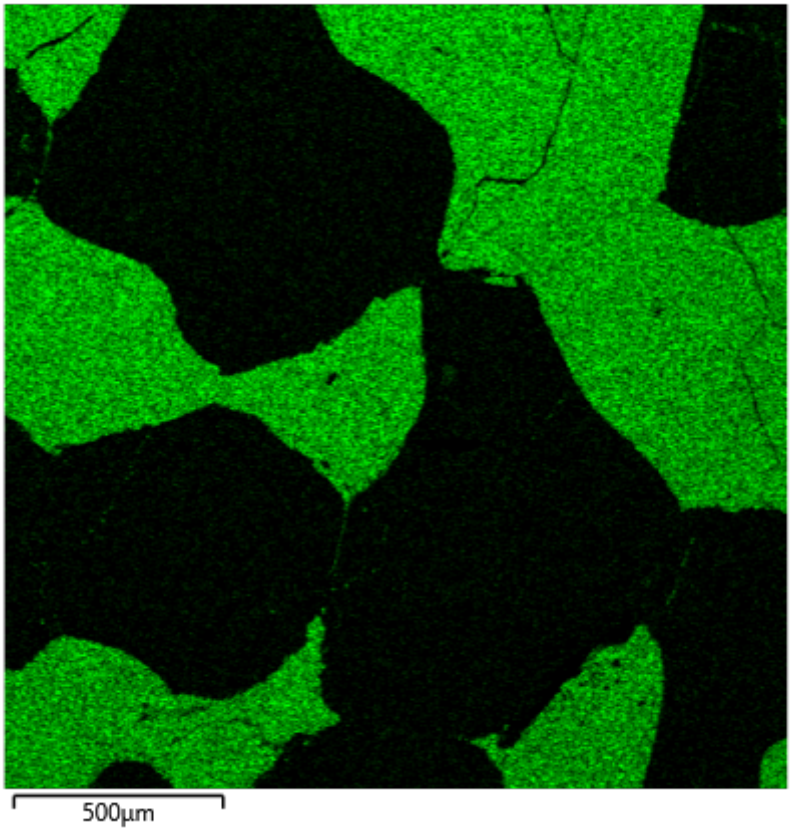

Spectrum 27
Fe
S
O
Si
Ca
Weight %
70
cps/eV
200
100
0
S
Fe
Fe
O
C
Ca
Si
Ca
0
5
10
15
keV


O
Ti
Fe
Ti
C
Ca
Mg
Mn
Si
S
Ca
Fe
Mn
100
50
0
cps/eV
0
5
10
15
keV
Spectrum 28
O
Ti
Fe
Mn
Mg
Si
Ca
S
Weight %
50

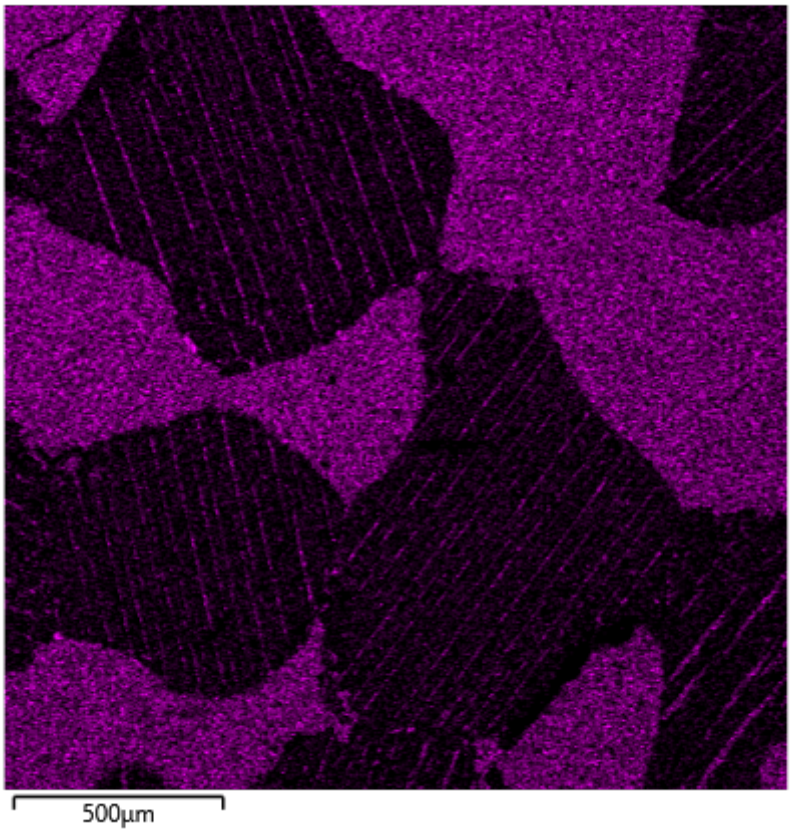
Område 3

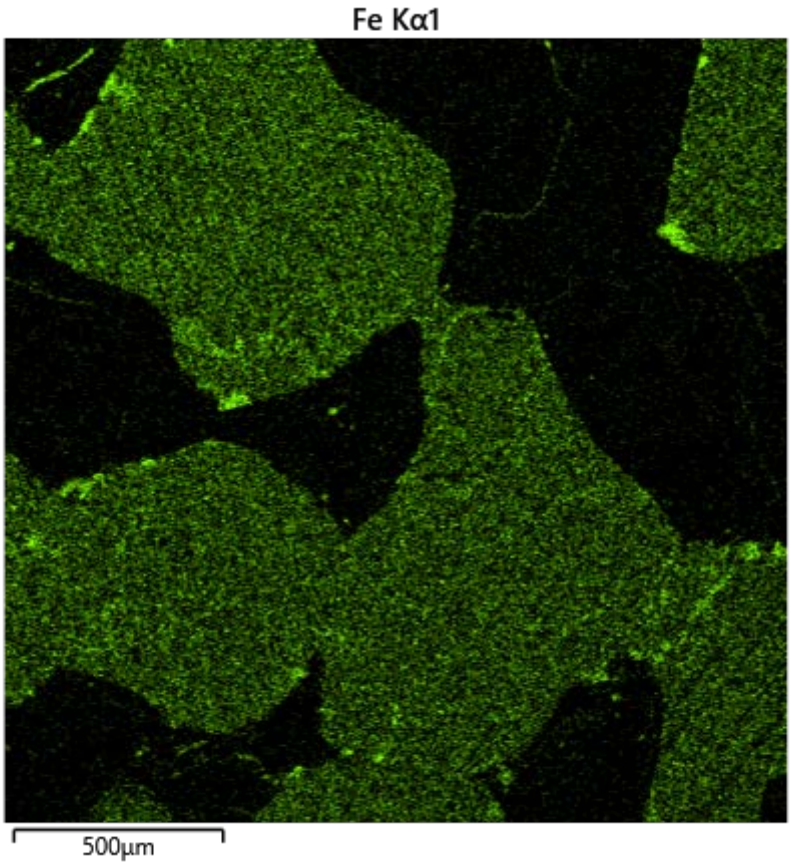


Al Kα1

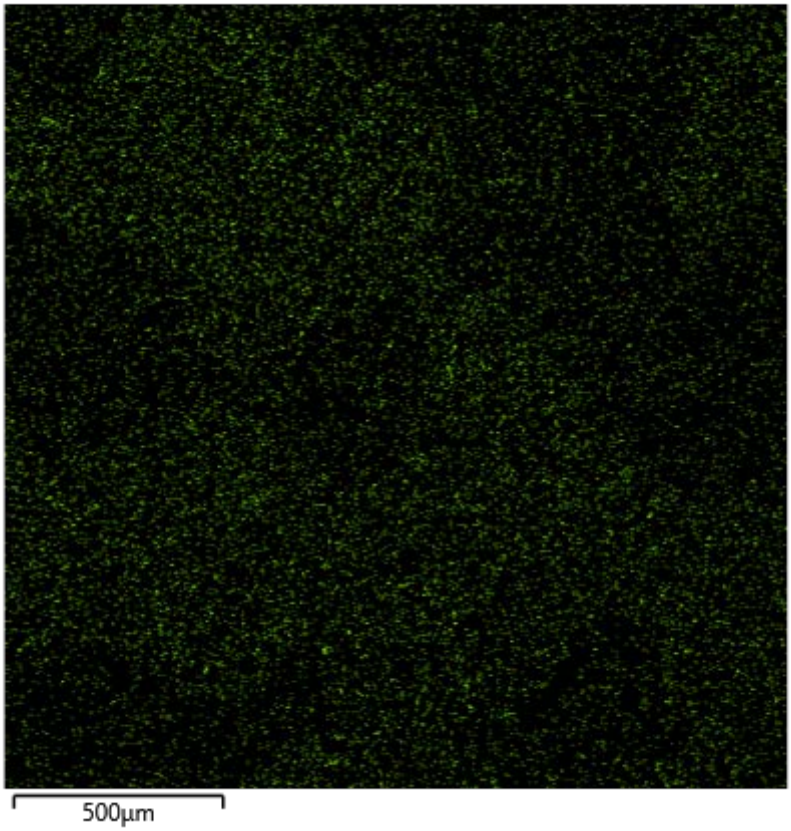


Ca Kα1

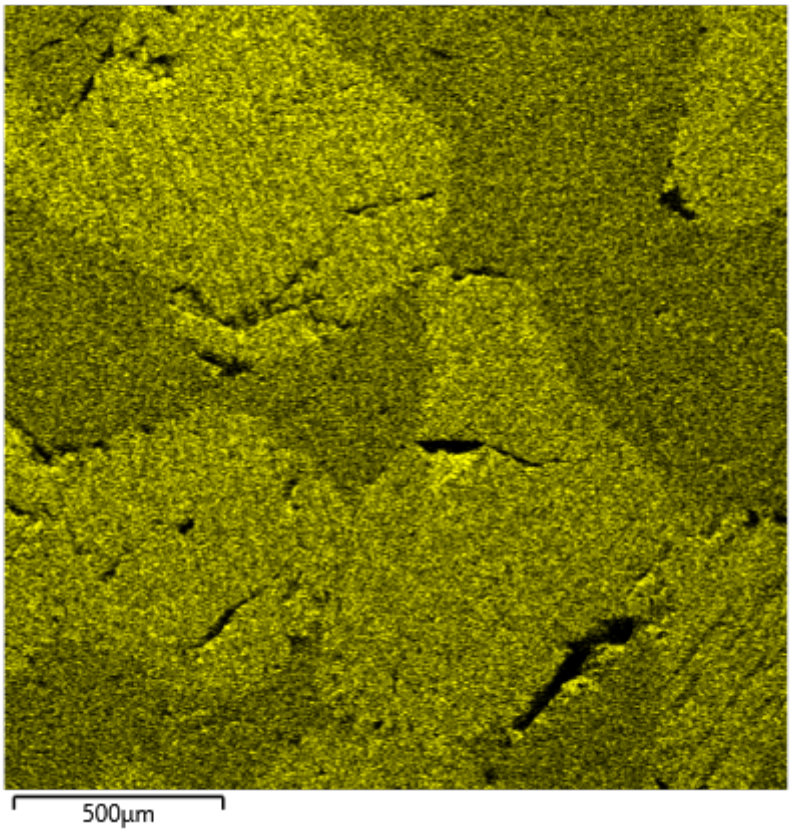



Fe Kα1
500µm
Mg Kα1_2
500µm

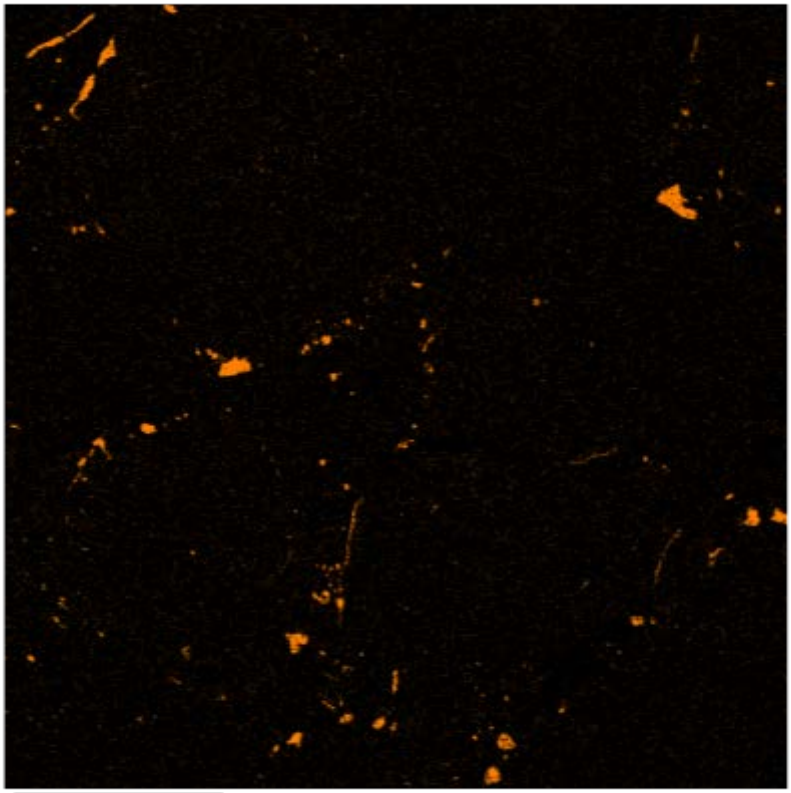
Mn Kα1



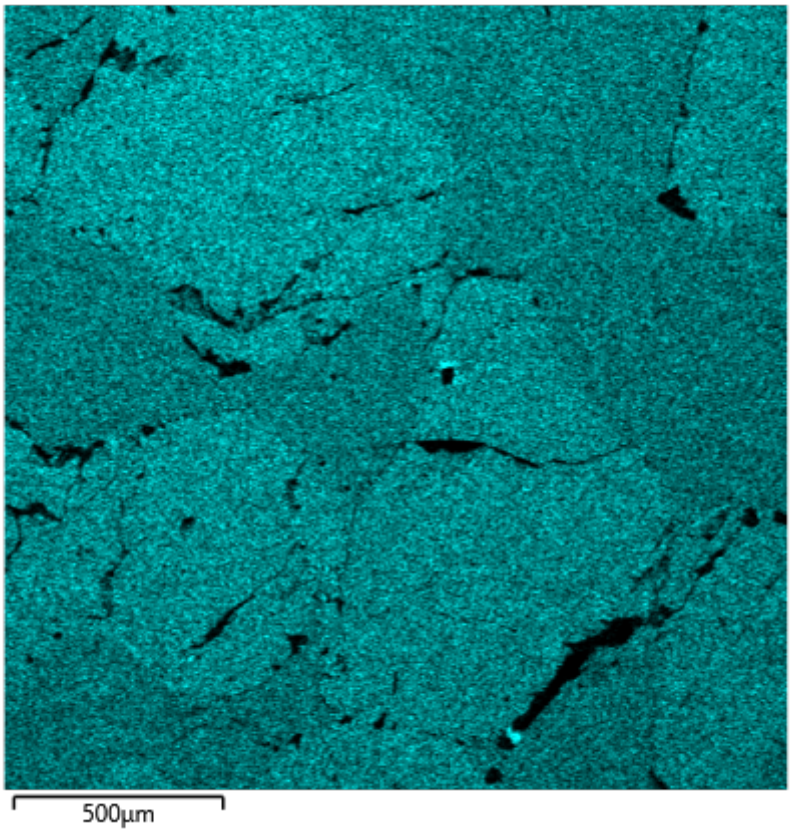
O Kα1

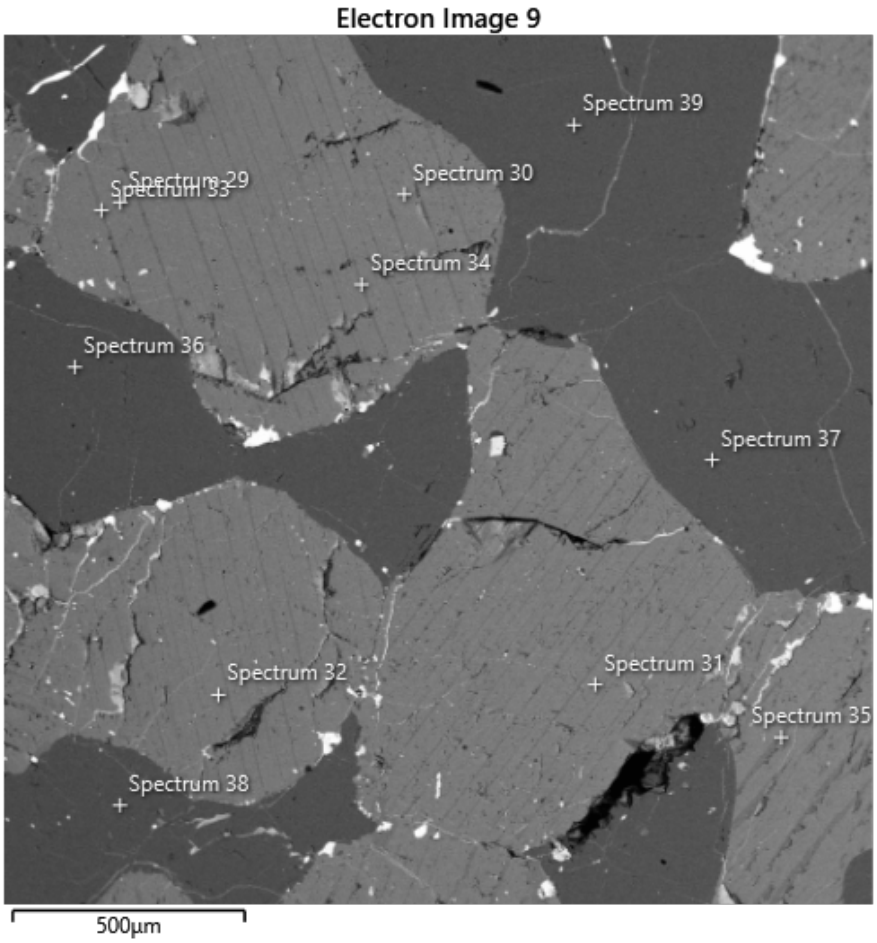


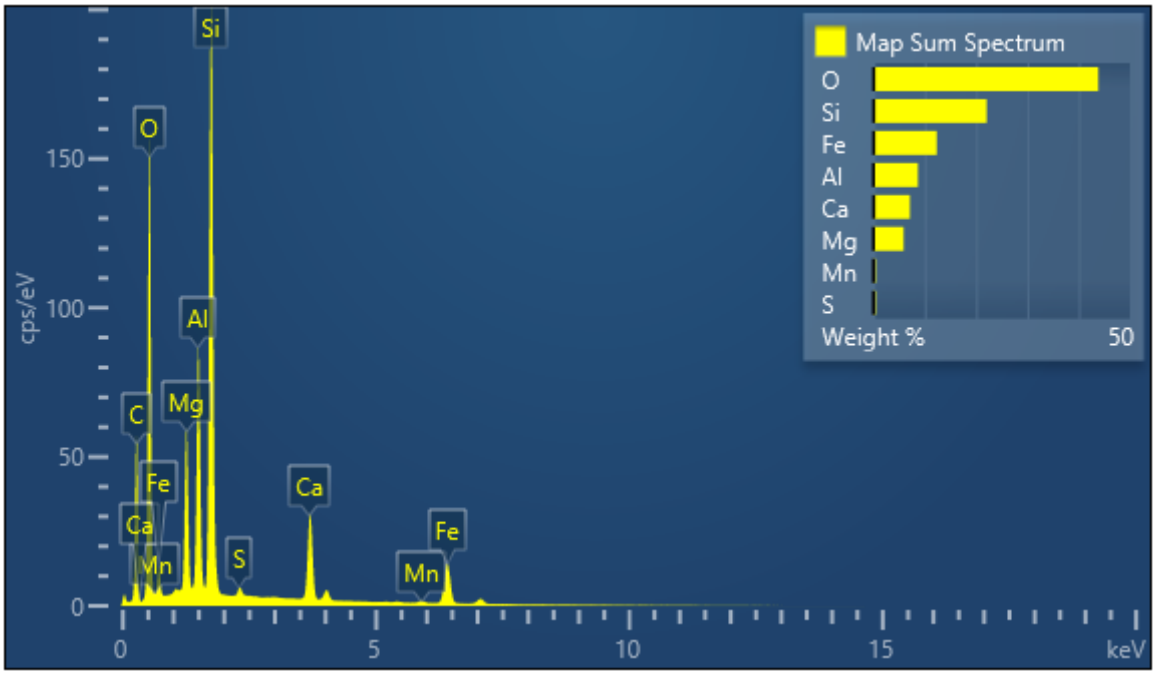
S Kα1

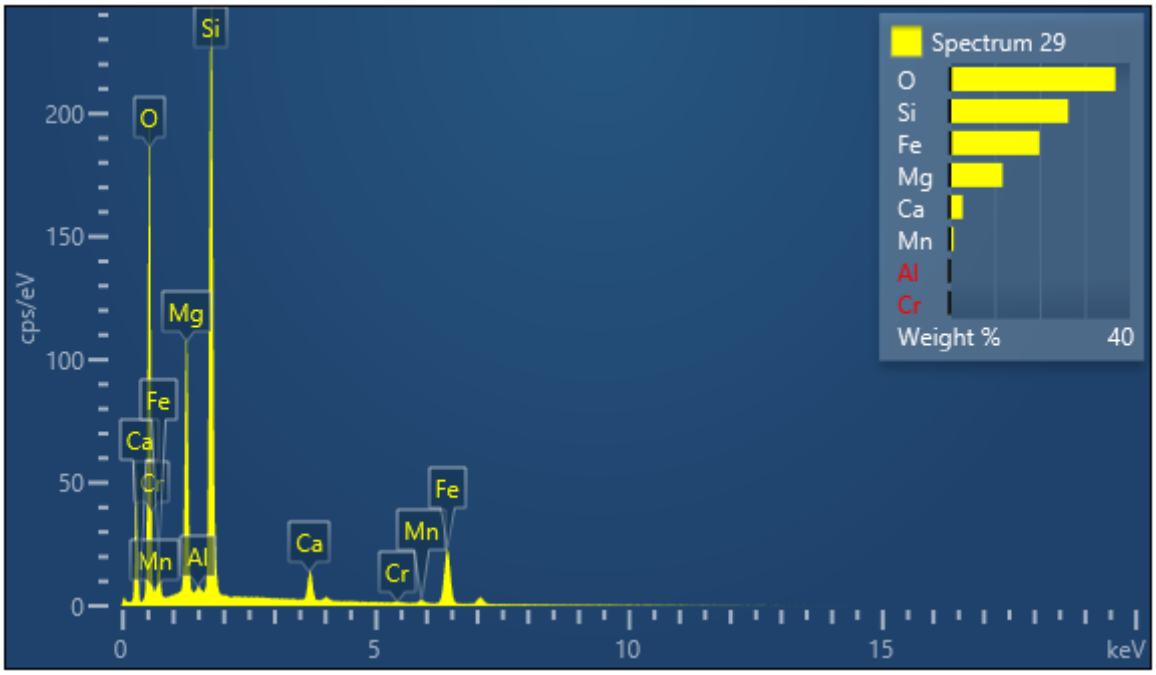


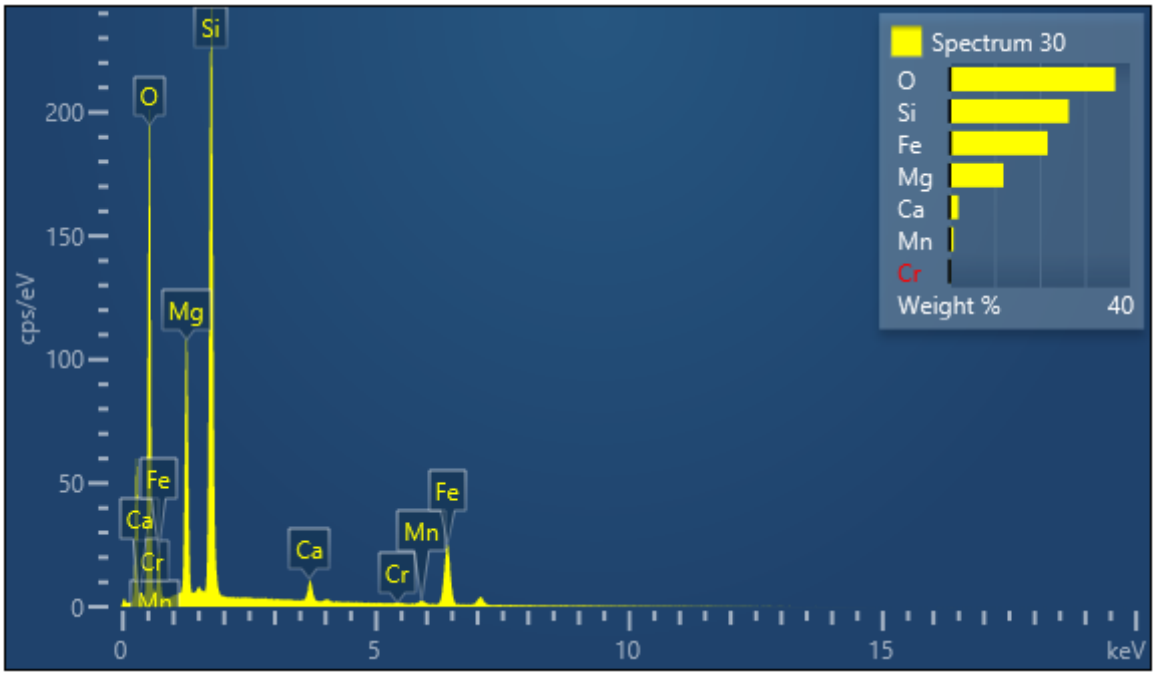
Si Kα1

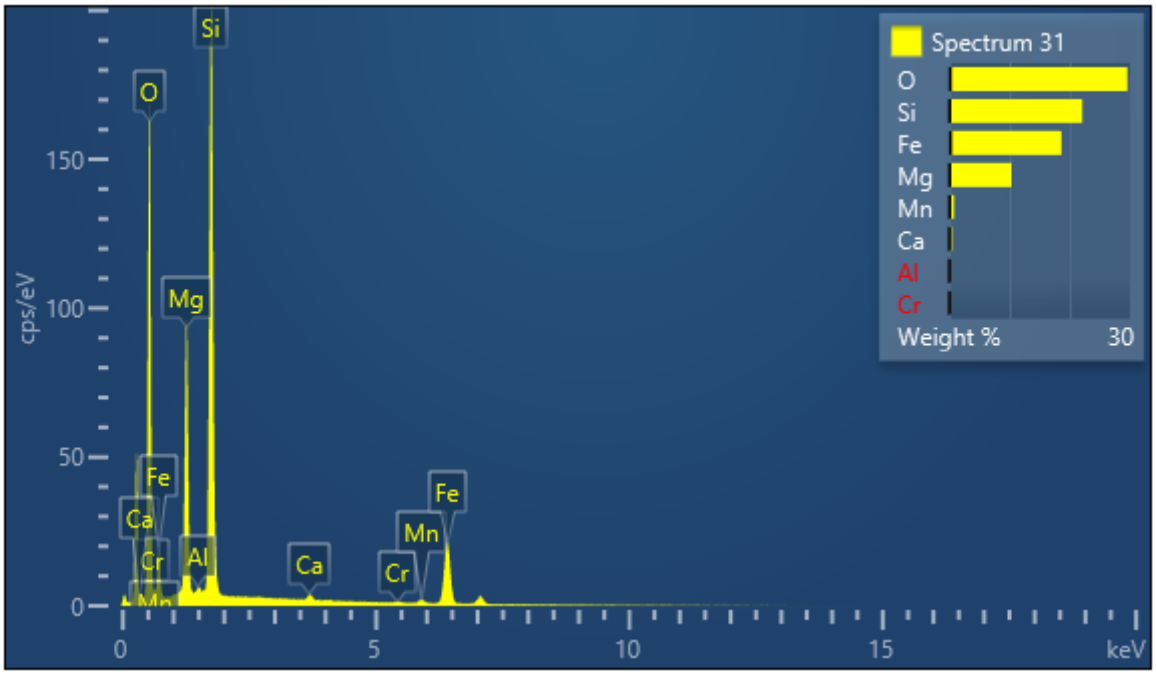


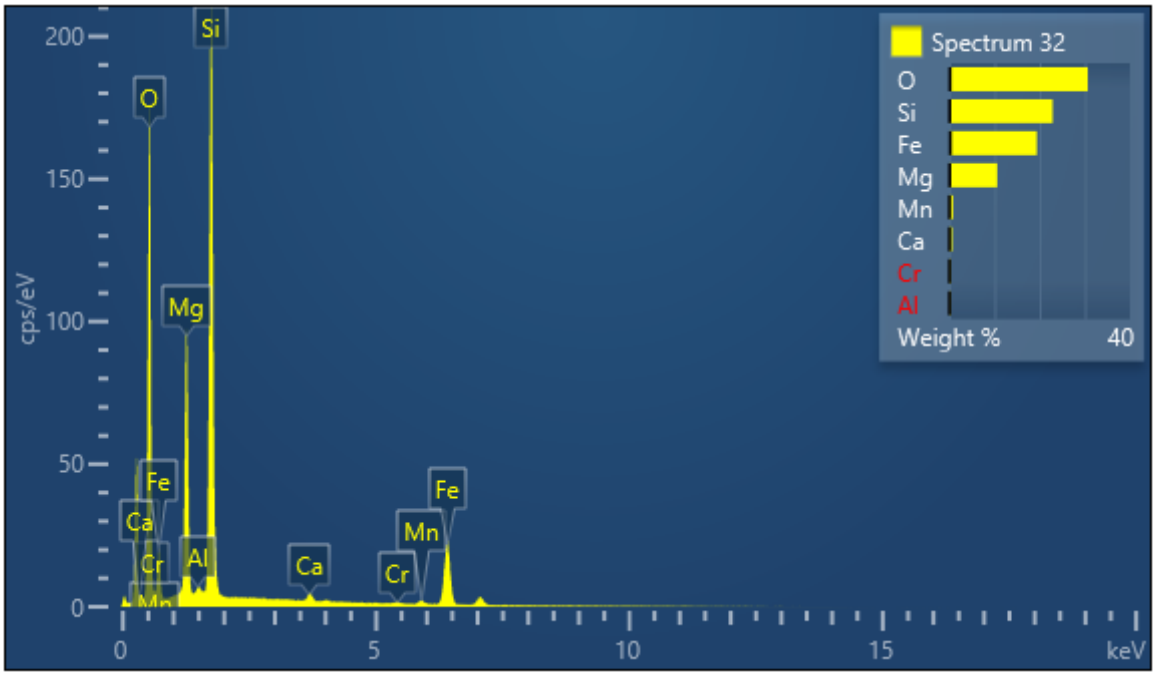

Electron Image 9
Spectrum 39
Spectrum 29
Spectrum 33
Spectrum 30
Spectrum 34
Spectrum 36
Spectrum 37
Spectrum 32
Spectrum 31
Spectrum 35
Spectrum 38
500µm

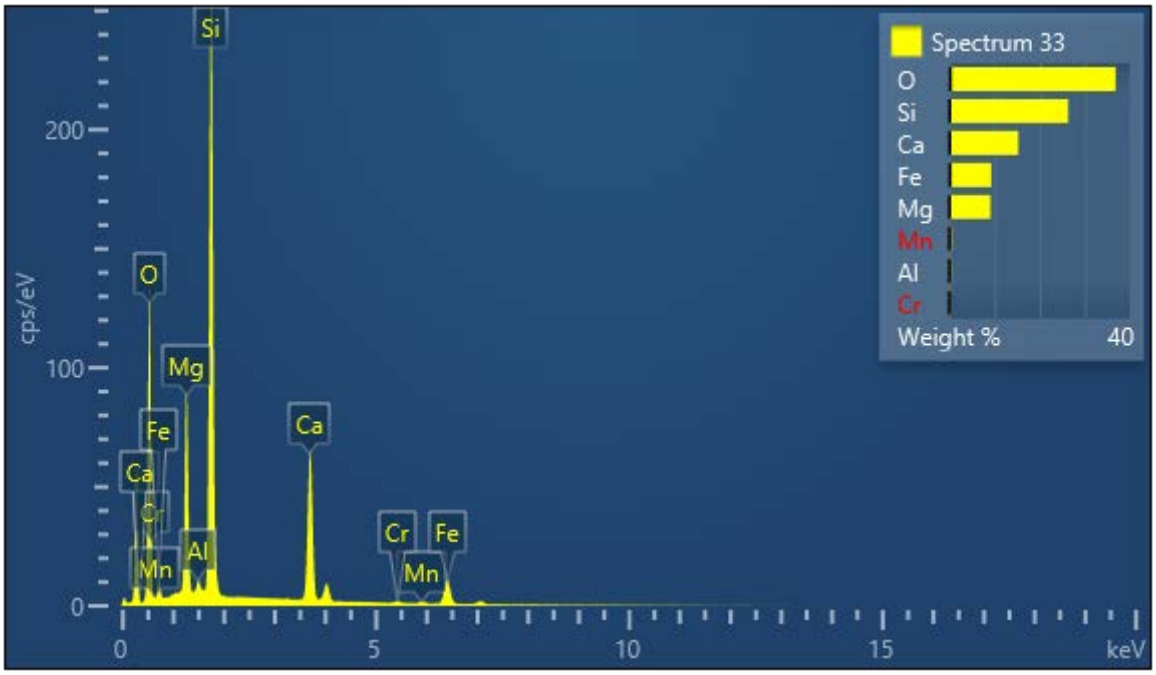

Map Sum Spectrum
O
Si
Fe
Al
Ca
Mg
Mn
S
Weight %
50
cps/eV
150
100
50
0
Si
O
Al
Mg
C
Fe
Ca
Mn
S
Ca
Fe
Mn
0
5
10
15
keV

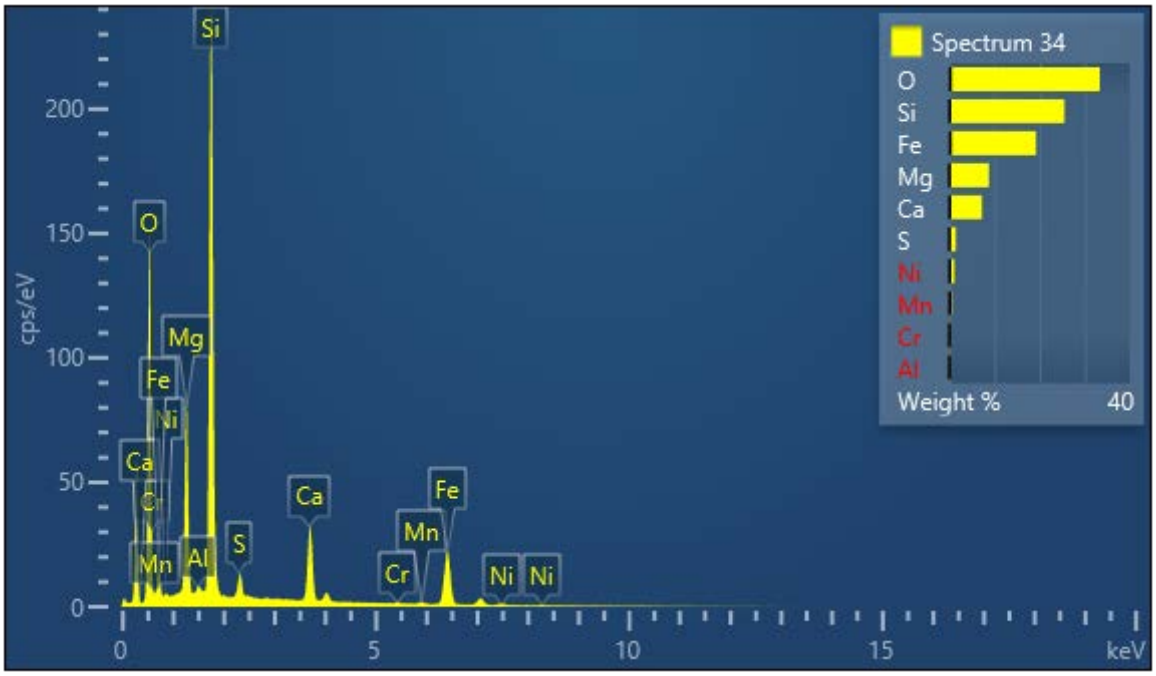

Spectrum 29
O
Si
Fe
Mg
Ca
Mn
Al
Cr
Weight %
40
cps/eV
keV
0
5
10
15
50
100
150
200

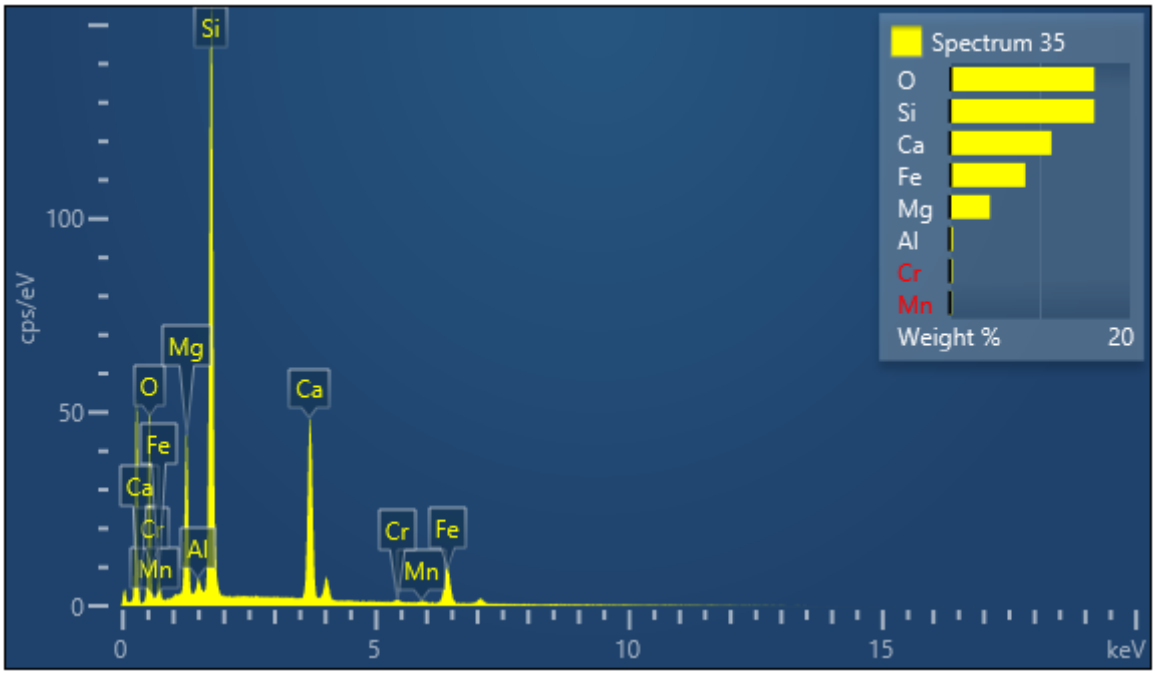

Spectrum 30
O
Si
Fe
Mg
Ca
Mn
Cr
Weight %
40
cps/eV
keV
0
5
10
15
50
100
150
200

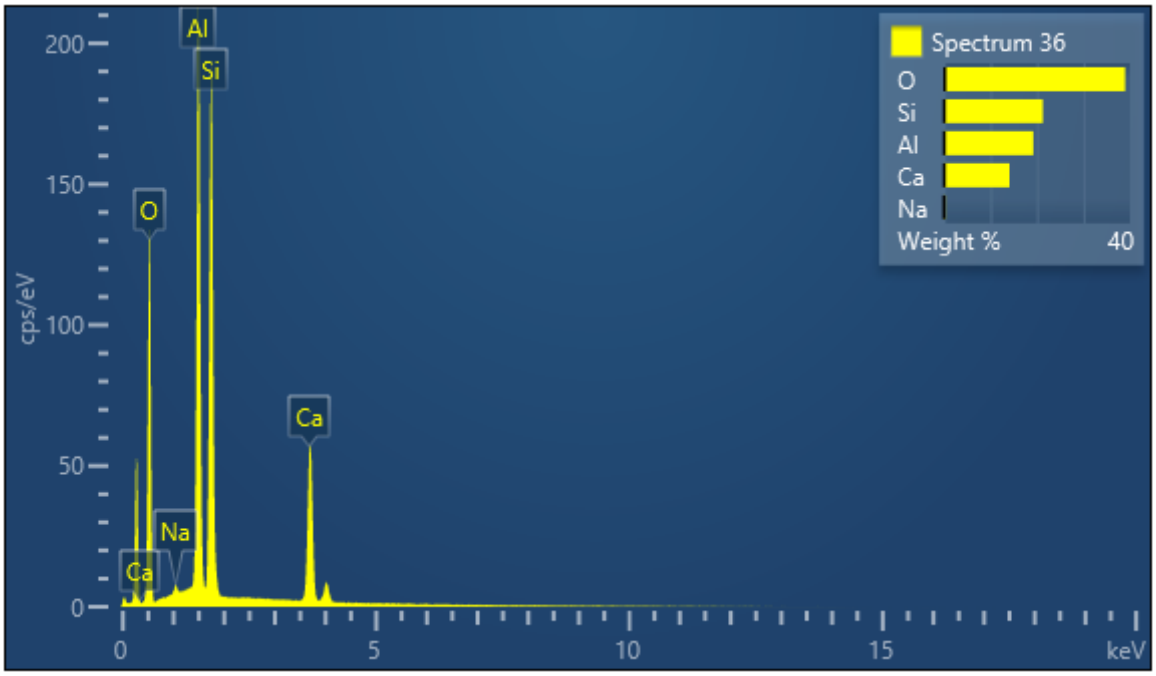

Spectrum 31
O
Si
Fe
Mg
Mn
Ca
Al
Cr
Weight %
30
cps/eV
keV
Si
O
Mg
Fe
Ca
Cr
Al
Ca
Cr
Mn
Fe

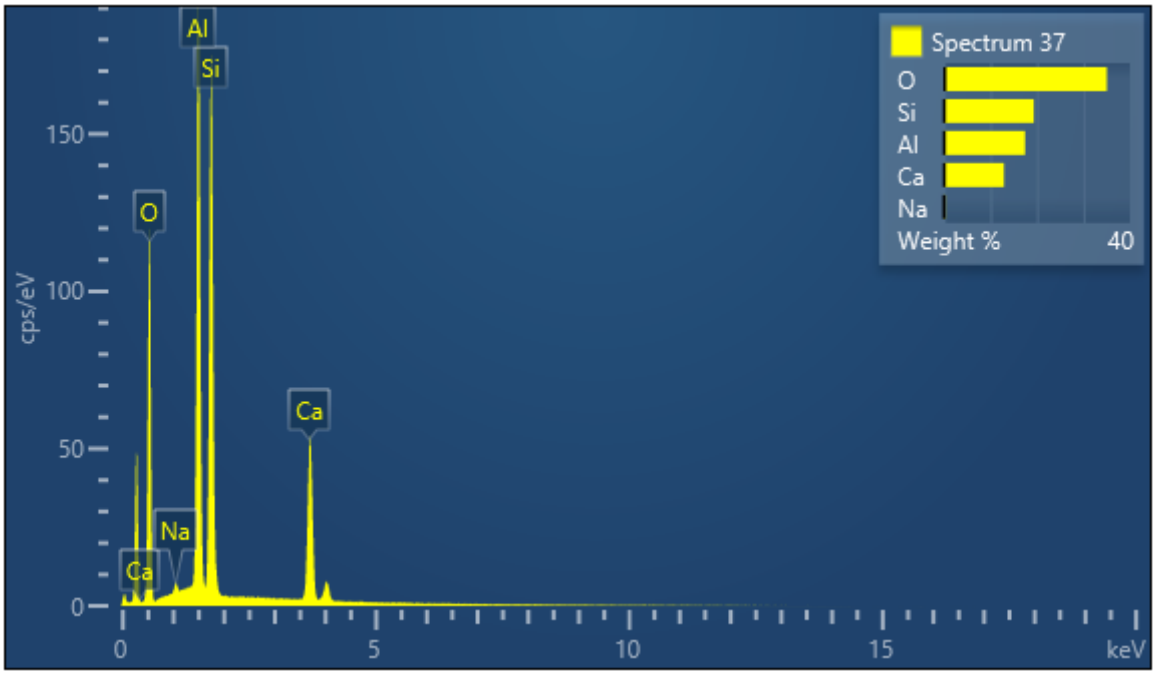

Spectrum 32
O
Si
Fe
Mg
Mn
Ca
Cr
Al
Weight %
40
cps/eV
keV
Si
O
Mg
Fe
Ca
Cr
Al
Ca
Cr
Mn
Fe

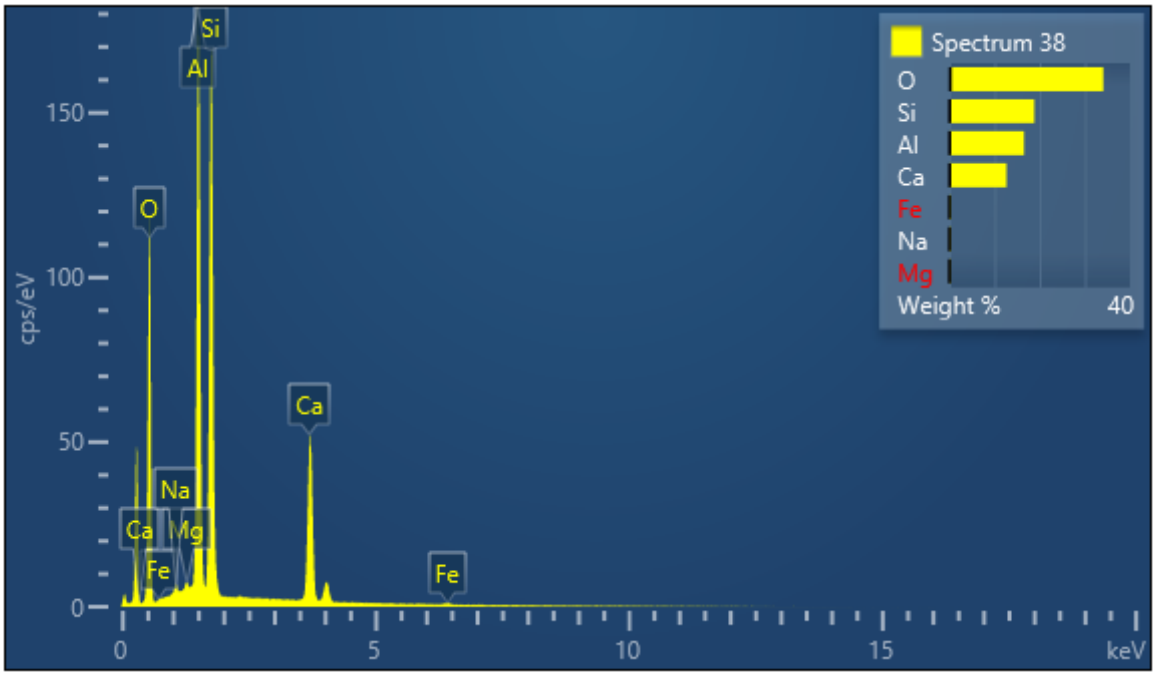

Spectrum 33
O
Si
Ca
Fe
Mg
Mn
Al
Cr
Weight %
40
cps/eV
200
100
0
Si
O
Mg
Fe
Ca
Cr
Mn
Al
Cr
Fe
Mn
0
5
10
15
keV

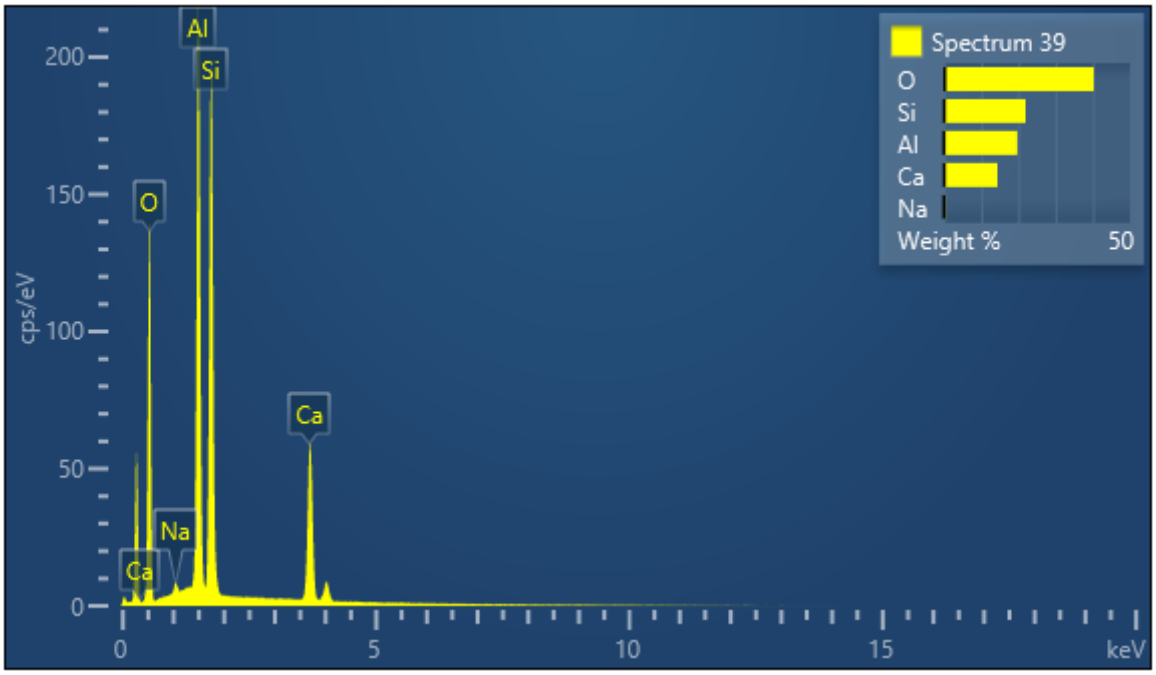

Spectrum 34
O
Si
Fe
Mg
Ca
S
Ni
Mn
Cr
Al
Weight %
40
cps/eV
200
150
100
50
0
Si
O
Mg
Fe
Ni
Ca
Cr
Mn
Al
S
Ca
Fe
Mn
Cr
Ni
Ni
0
5
10
15
keV


Spectrum 35
O
Si
Ca
Fe
Mg
Al
Cr
Mn
Weight %
20
cps/eV
100
50
0
Si
Mg
O
Fe
Ca
Cr
Al
Mn
Ca
Cr
Fe
Mn
0
5
10
15
keV

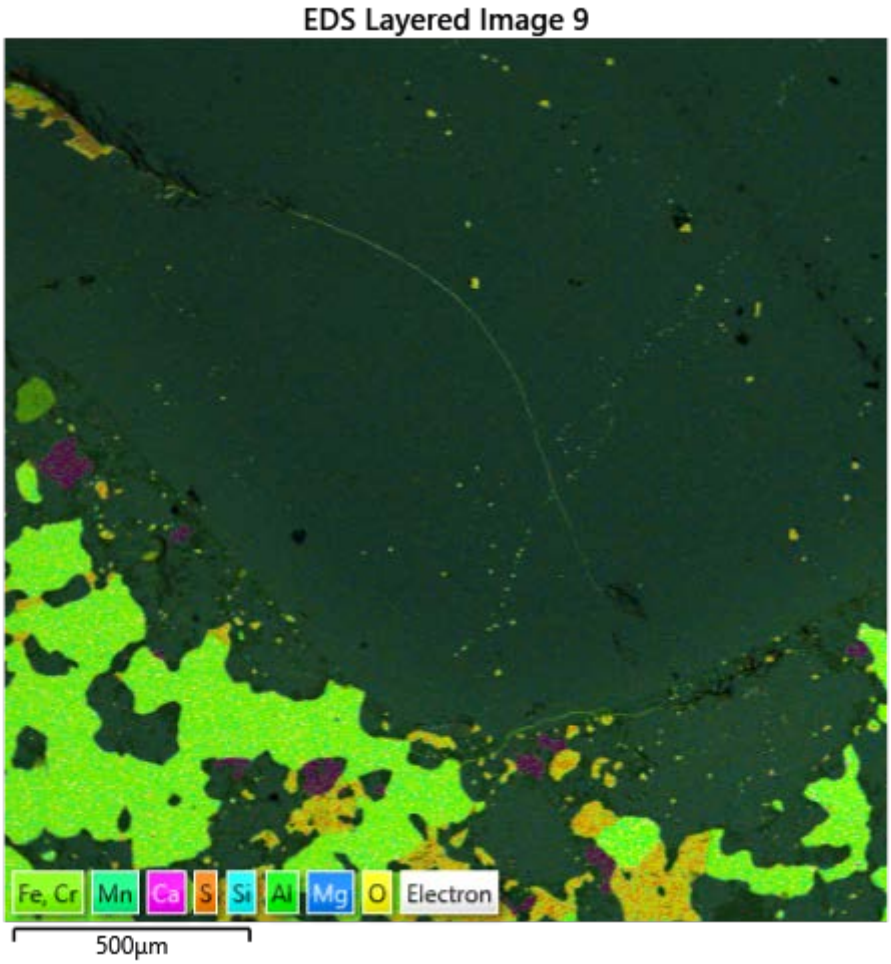

Spectrum 36
O
Si
Al
Ca
Na
Weight %
40
cps/eV
200
150
100
50
0
Al
Si
O
Ca
Na
Ca
0
5
10
15
keV

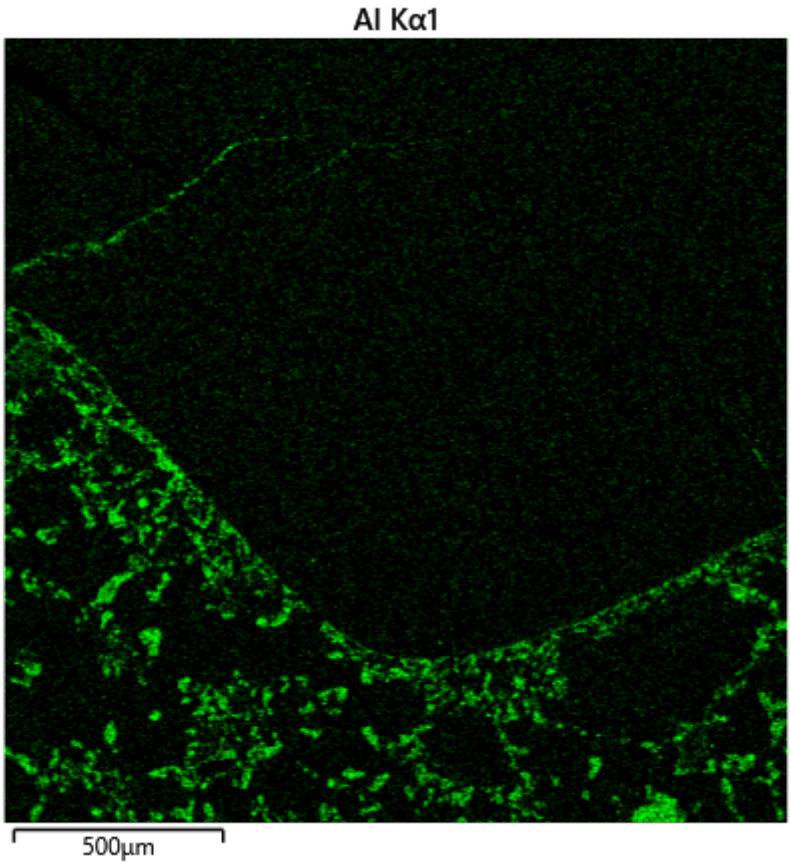

Spectrum 37
O
Si
Al
Ca
Na
Weight %
40
Al
Si
O
Ca
Na
Ca
cps/eV
150
100
50
0
0
5
10
15
keV

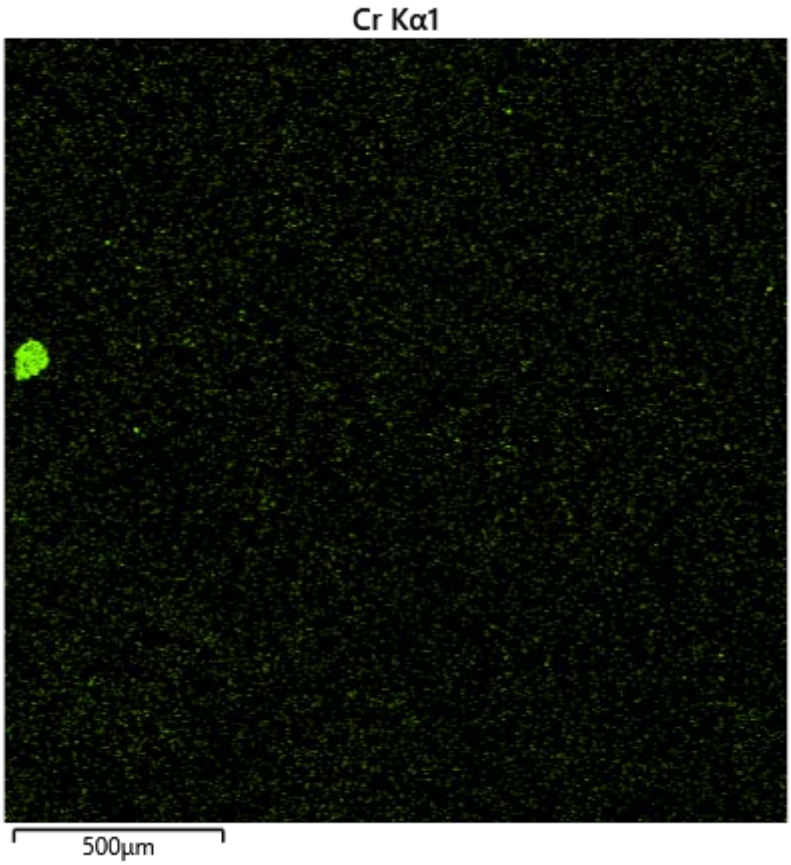

Spectrum 38
O
Si
Al
Ca
Fe
Na
Mg
Weight %
40
Si
Al
O
Ca
Na
Ca
Mg
Fe
Fe
cps/eV
150
100
50
0
0
5
10
15
keV

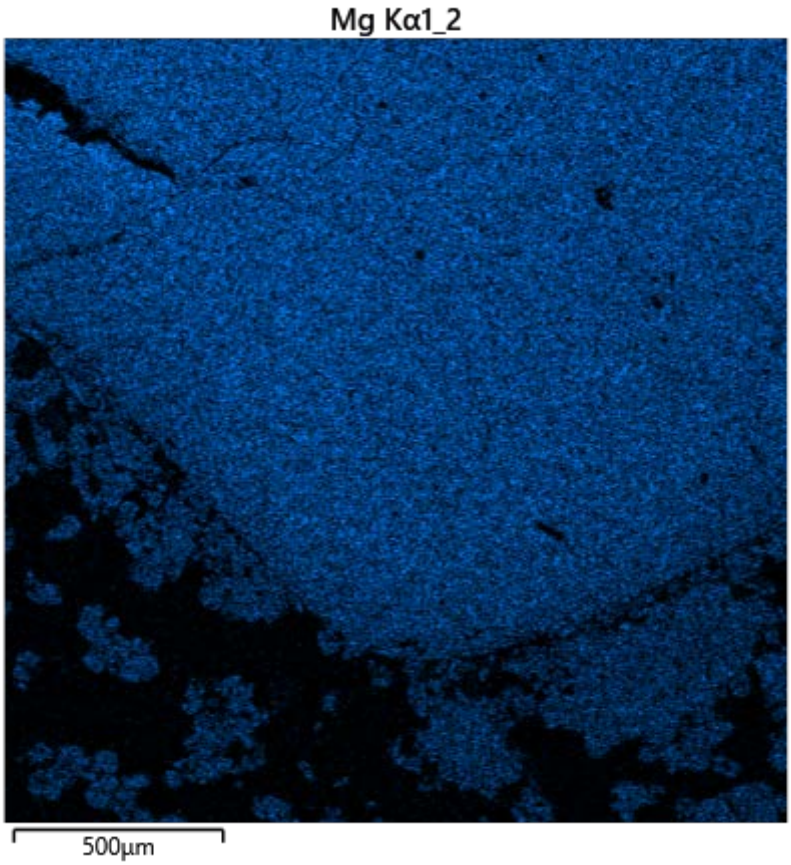

Spectrum 39
O
Si
Al
Ca
Na
Weight %
50
Al
Si
O
Ca
Na
Ca
cps/eV
200
150
100
50
0
0
5
10
15
keV

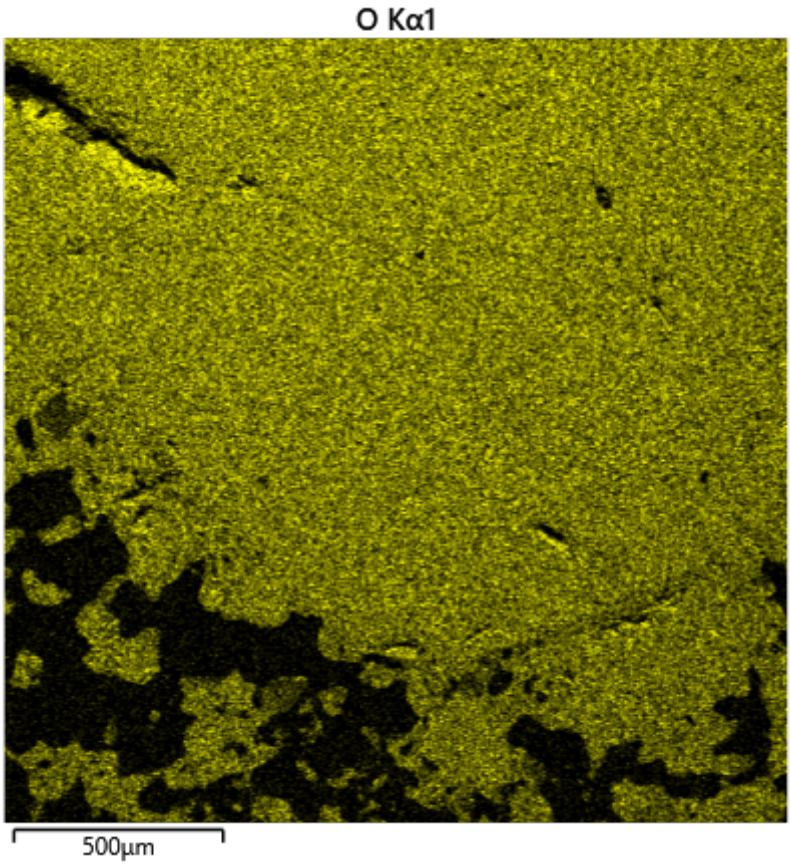
Område 4

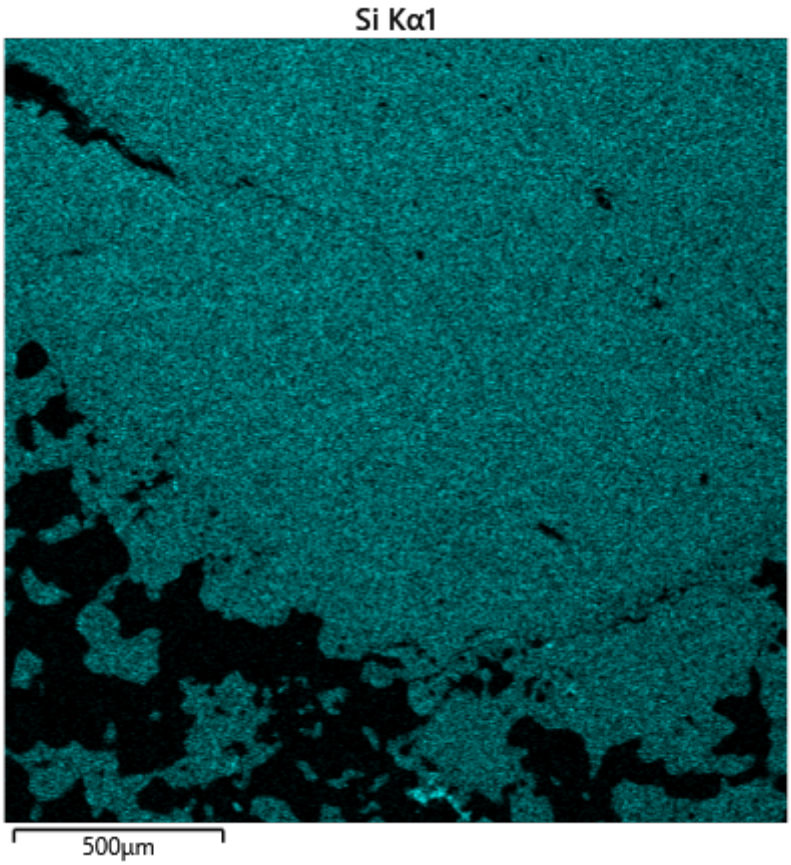


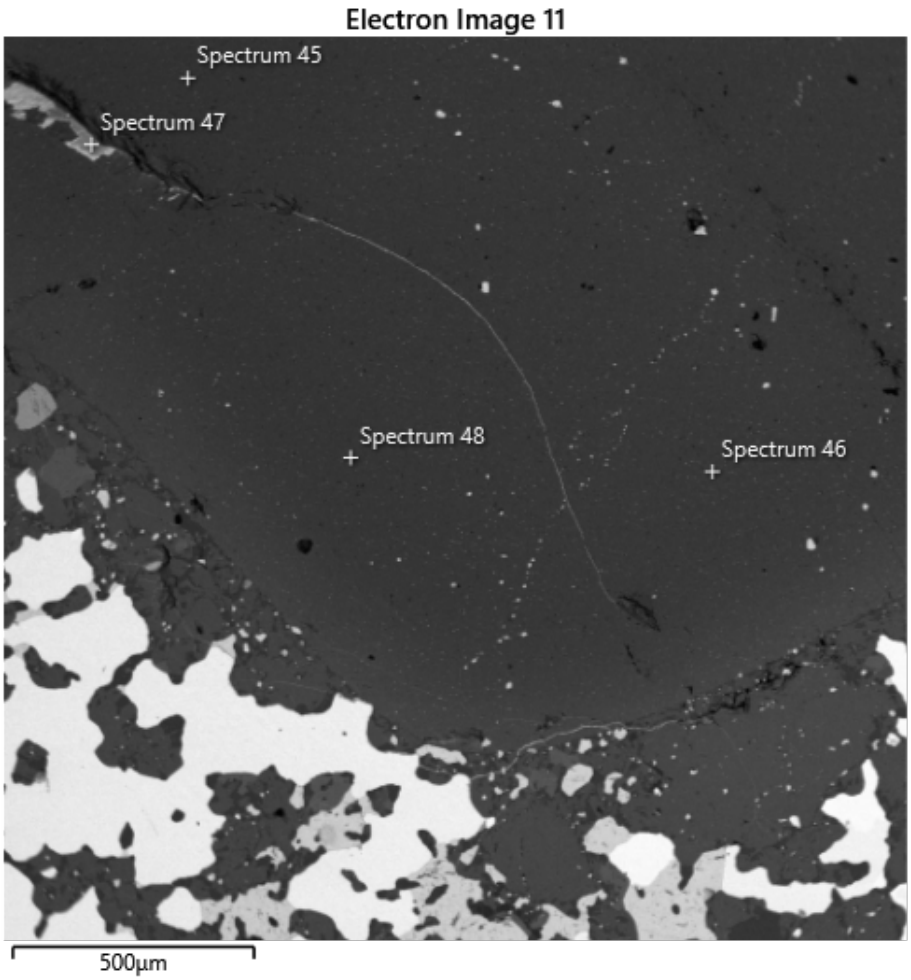

Al Kα1
500µm
Ca Kα1
500µm

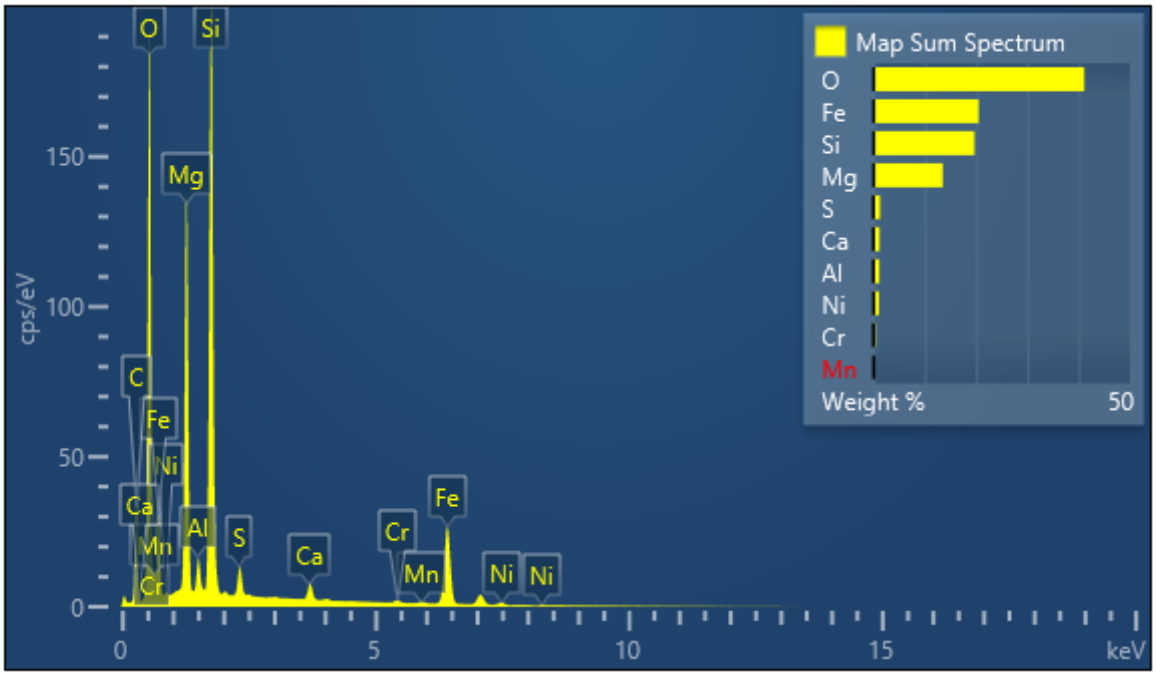

Cr Kα1
500µm
Fe Kα1
500µm

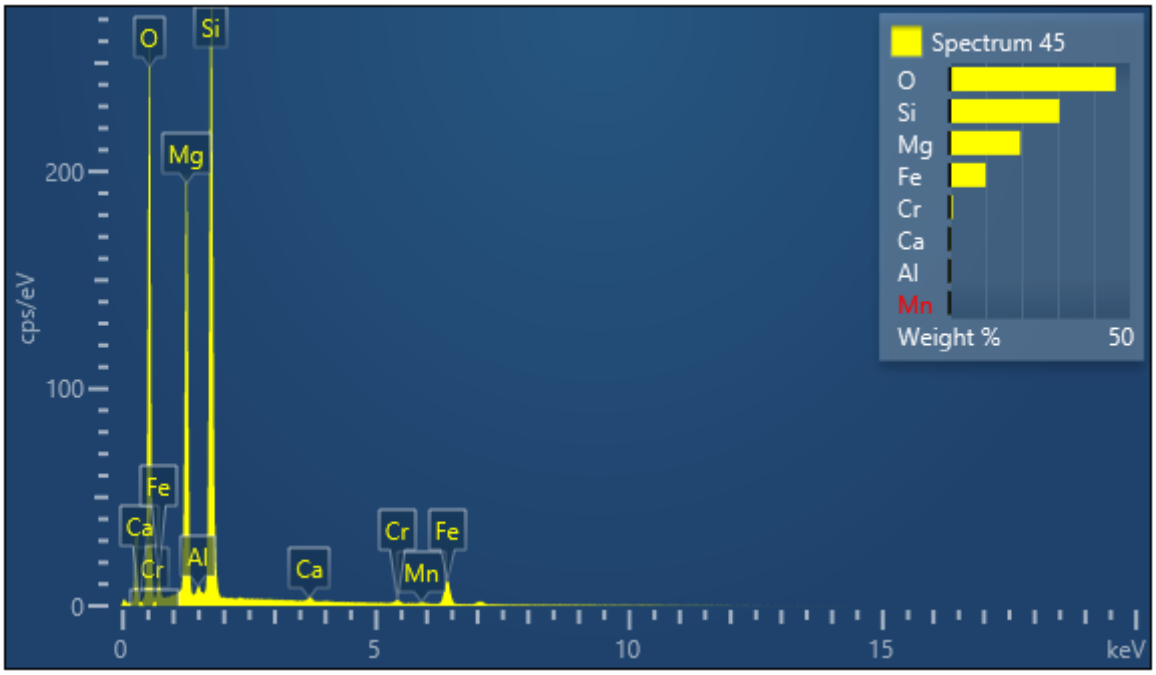

Mg Kα1_2
500µm
Mn Kα1
500µm

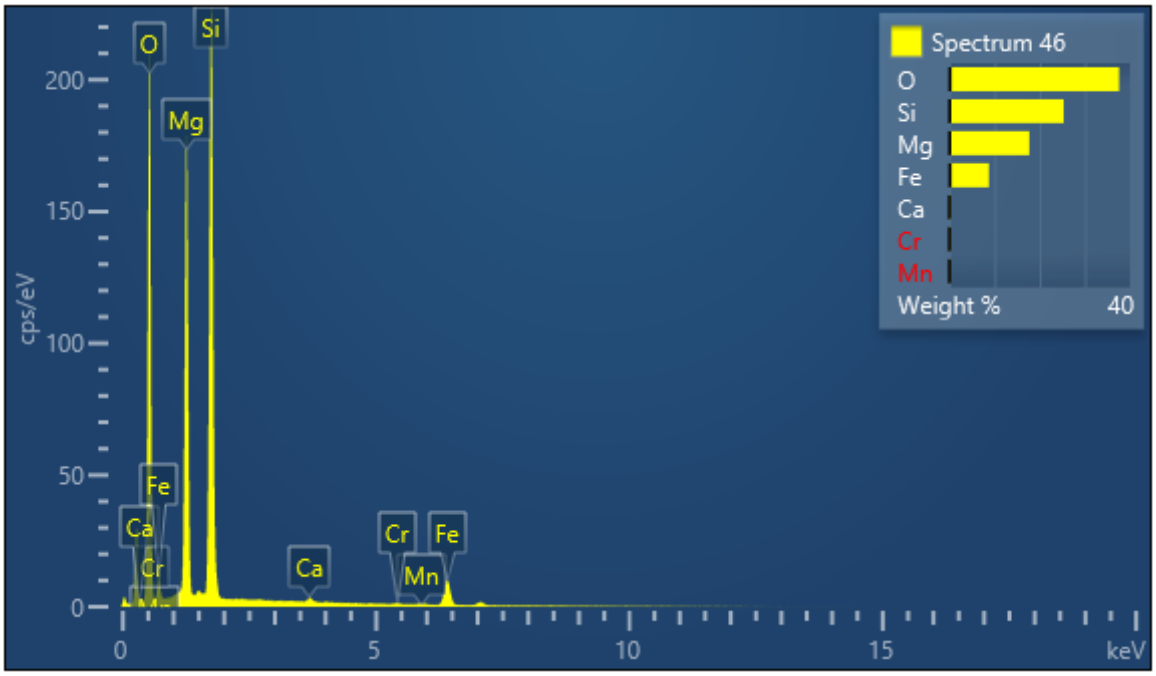

O Kα1
500µm
S Kα1
500µm

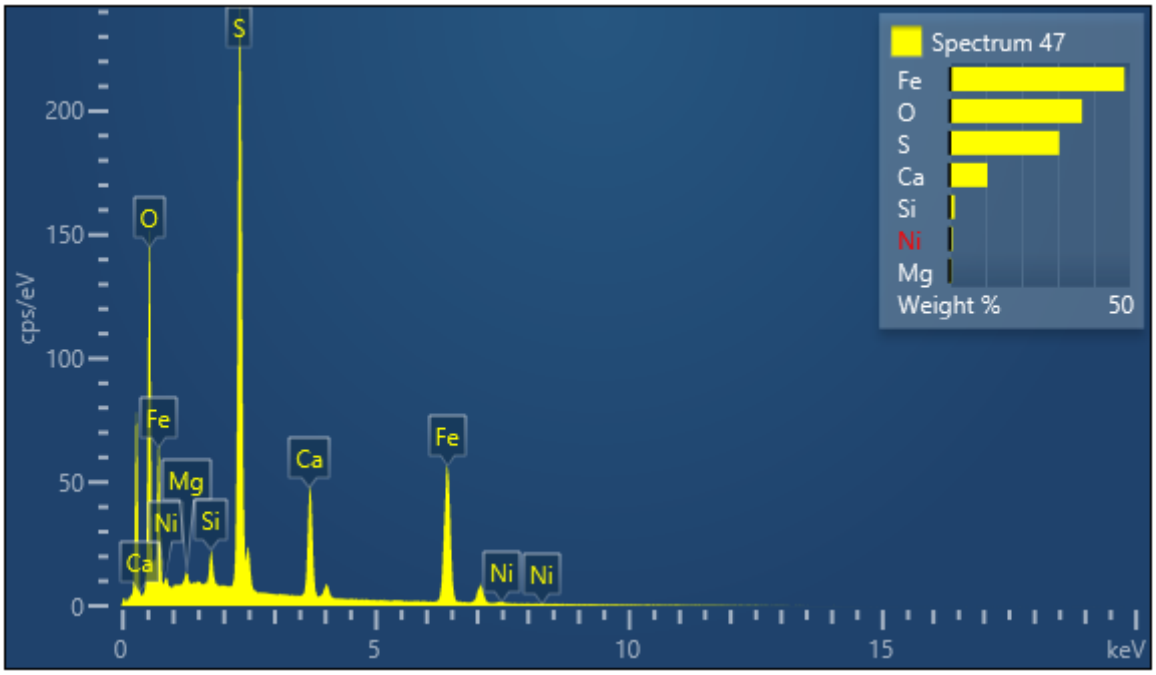

Si Kα1
500µm

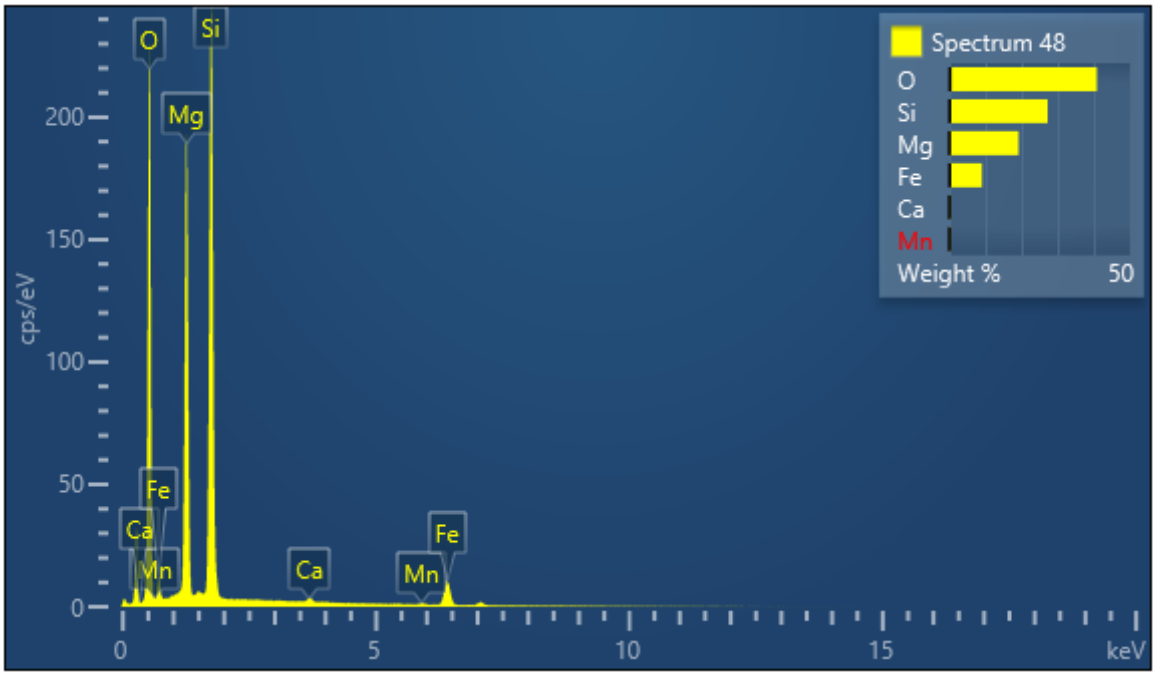

Electron Image 11
Spectrum 45
Spectrum 47
Spectrum 48
Spectrum 46
500µm


Map Sum Spectrum
O
Fe
Si
Mg
S
Ca
Al
Ni
Cr
Mn
Weight %
50
cps/eV
150
100
50
0
O
Si
Mg
C
Fe
Ni
Ca
Al
S
Mn
Cr
Ca
Cr
Fe
Mn
Ni
Ni
0
5
10
15
keV

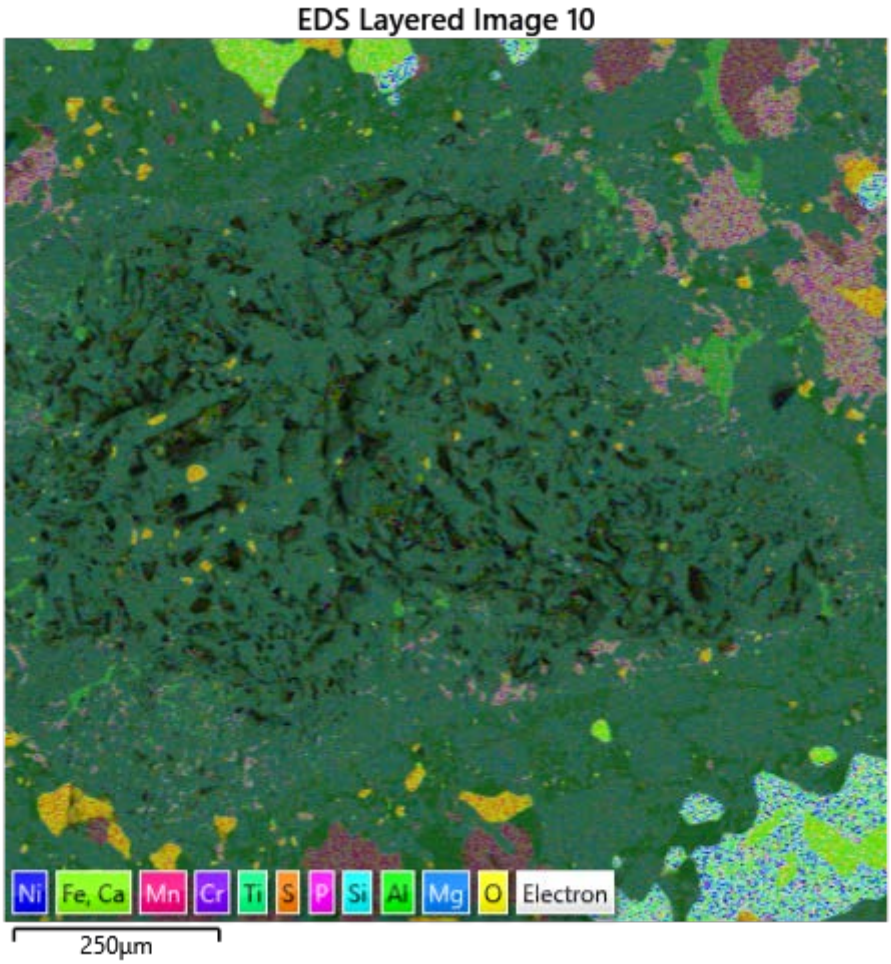

Spectrum 45
O
Si
Mg
Fe
Cr
Ca
Al
Mn
Weight %
50
cps/eV
200
100
0
O
Si
Mg
Fe
Ca
Cr
Al
Ca
Cr
Fe
Mn
0
5
10
15
keV


Spectrum 46
O
Si
Mg
Fe
Ca
Cr
Mn
Weight %
40
cps/eV
200
150
100
50
0
O
Si
Mg
Fe
Ca
Cr
Ca
Cr
Fe
Mn
0
5
10
15
keV

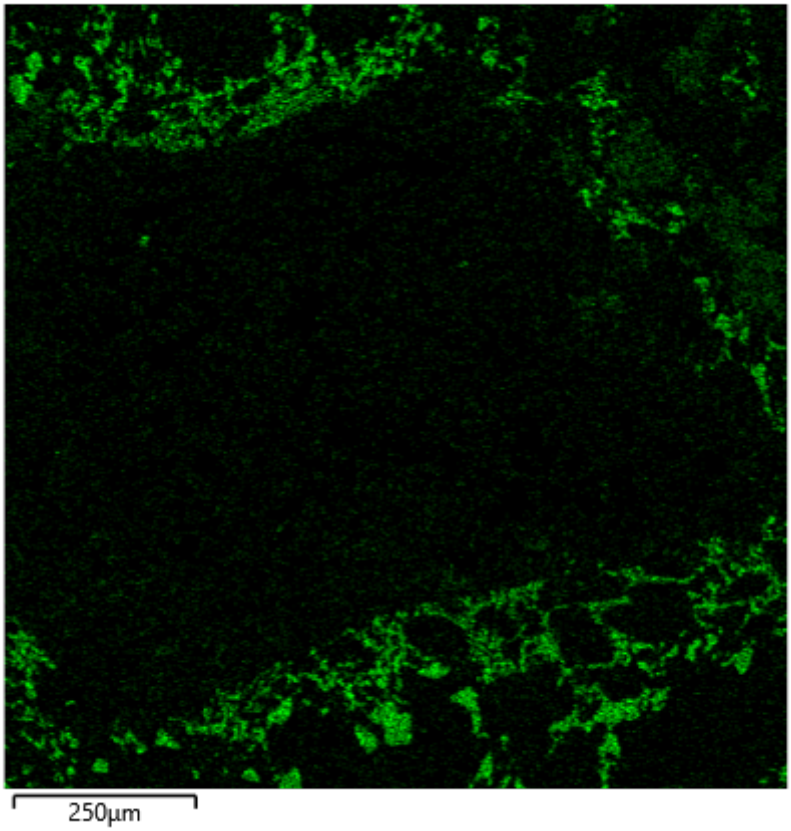

Spectrum 47
Fe
O
S
Ca
Si
Ni
Mg
Weight %
50
cps/eV
200
150
100
50
0
S
O
Fe
Mg
Ni
Si
Ca
Ca
Fe
Ni
Ni
0
5
10
15
keV


Spectrum 48
O
Si
Mg
Fe
Ca
Mn
Weight %
50
cps/eV
200
150
100
50
0
O
Si
Mg
Fe
Ca
Mn
Ca
Fe
Mn
0
5
10
15
keV

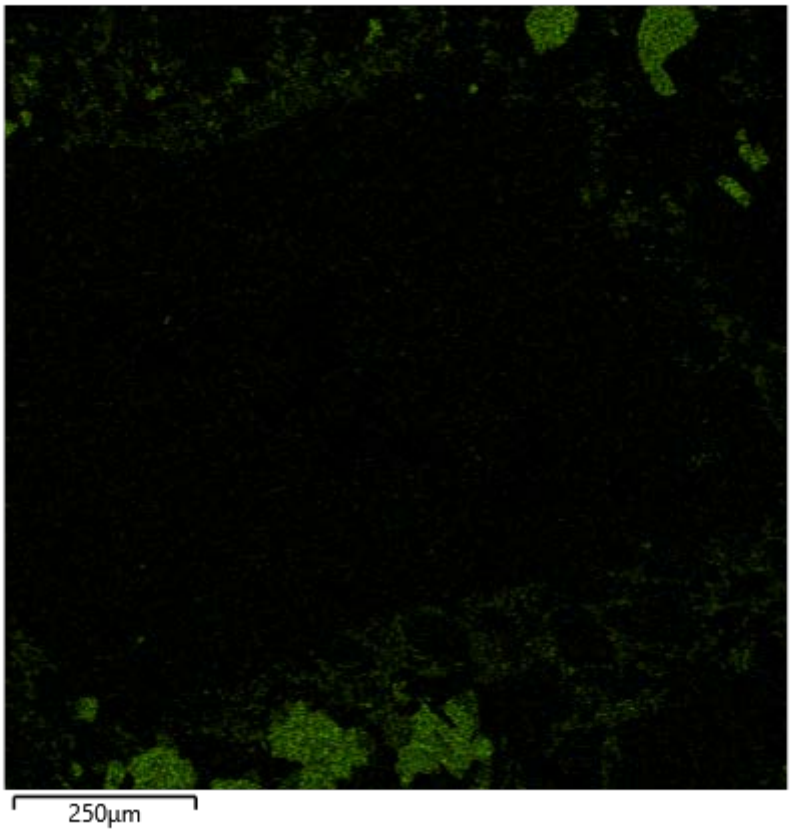
Område 5

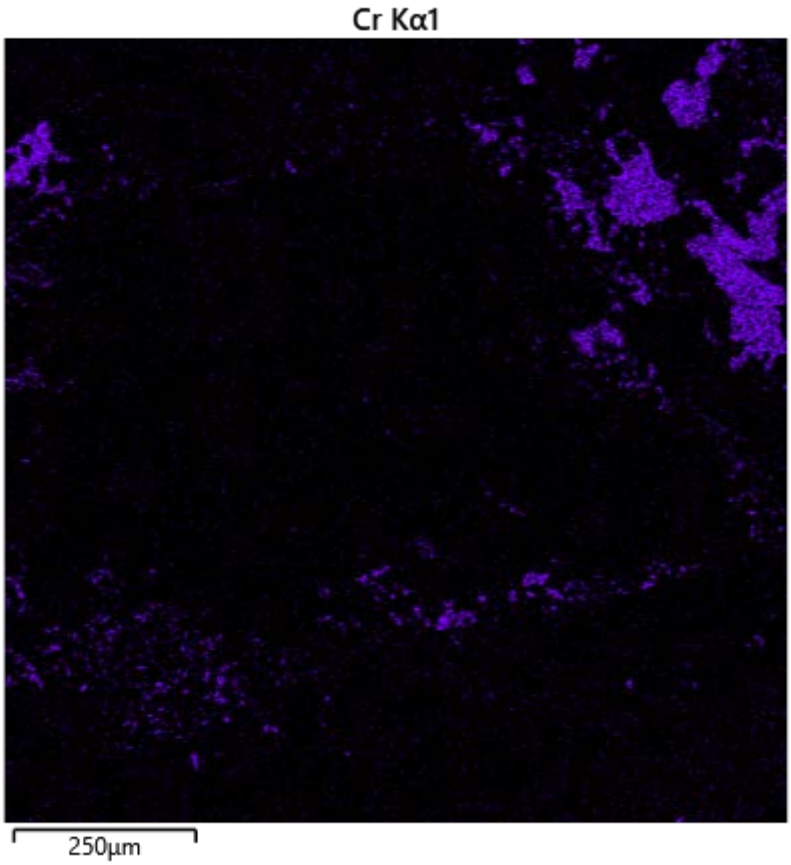

EDS Layered Image 10
Ni
Fe, Ca
Mn
Cr
Ti
S
P
Si
Al
Mg
O
Electron
250µm

Al Kα1

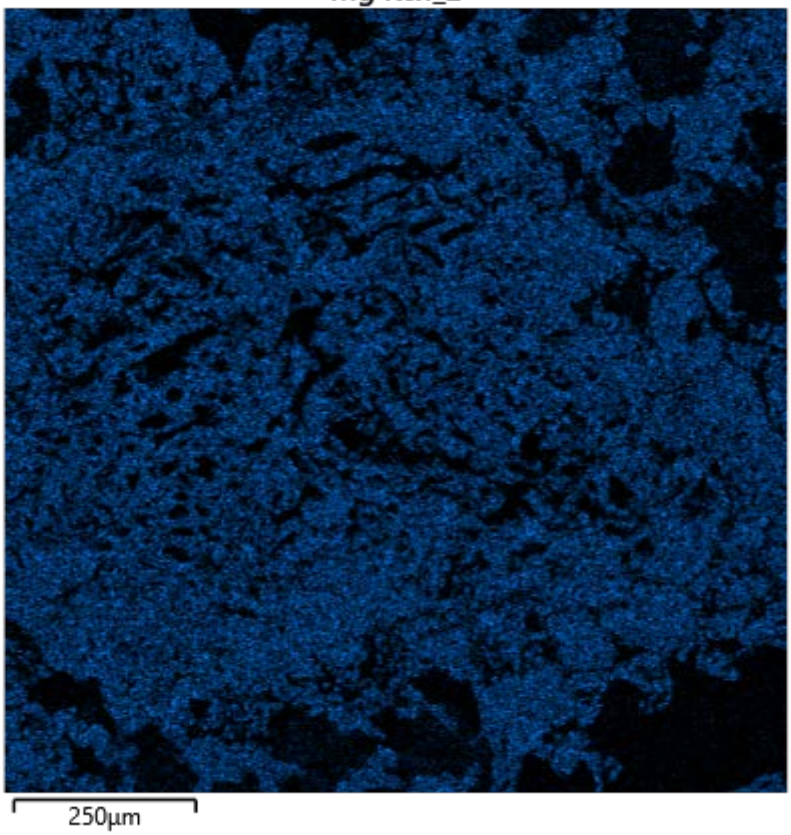


Ca Kα1

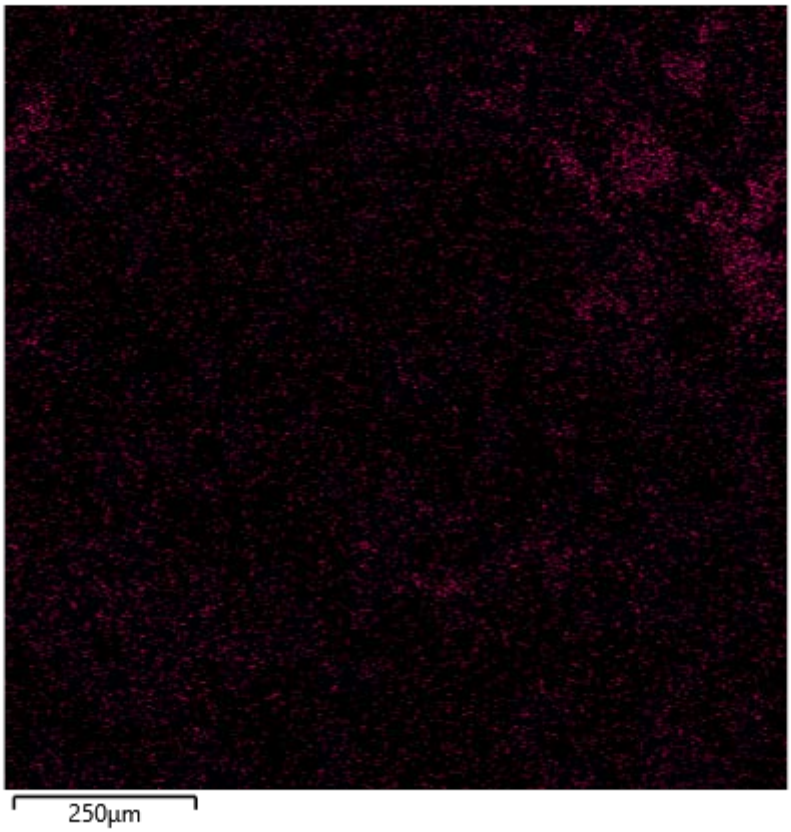


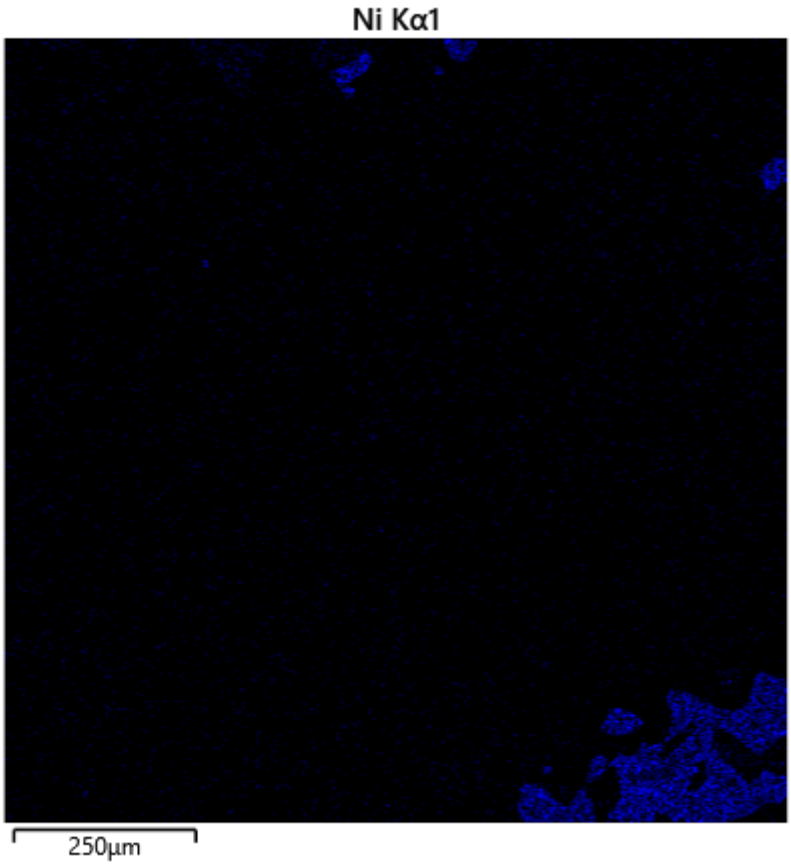

Cr Kα1
250µm
Fe Kα1
250µm

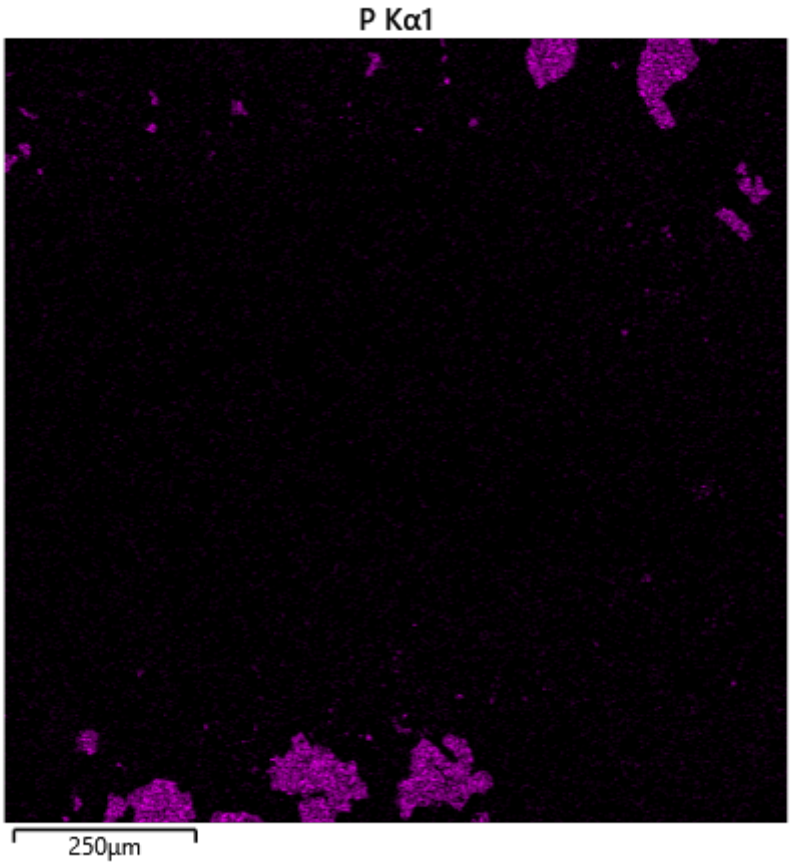
Mg Kα1_2



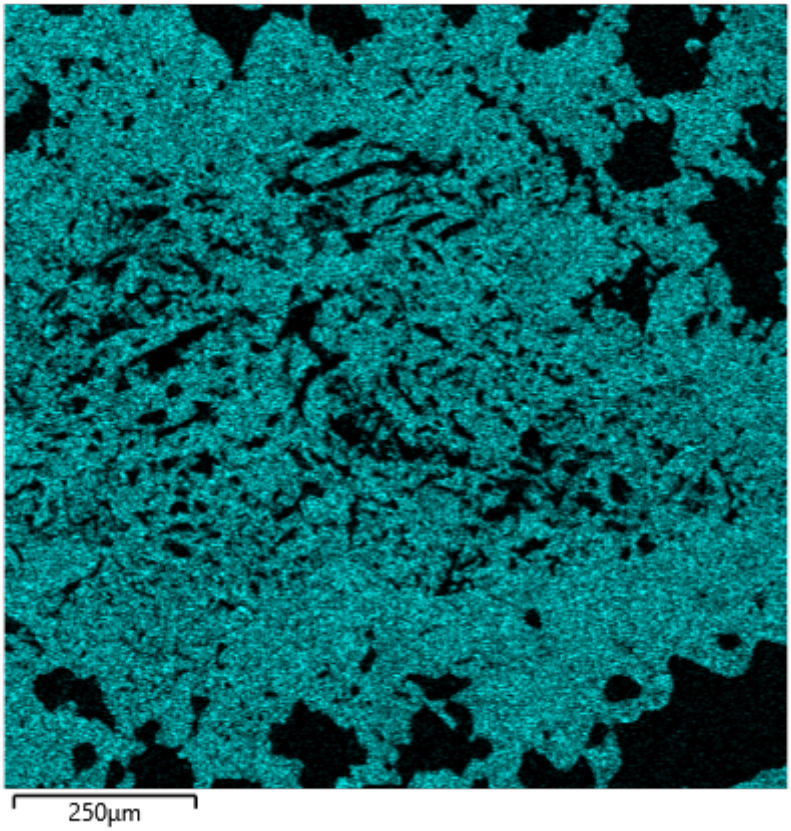
Mn Kα1



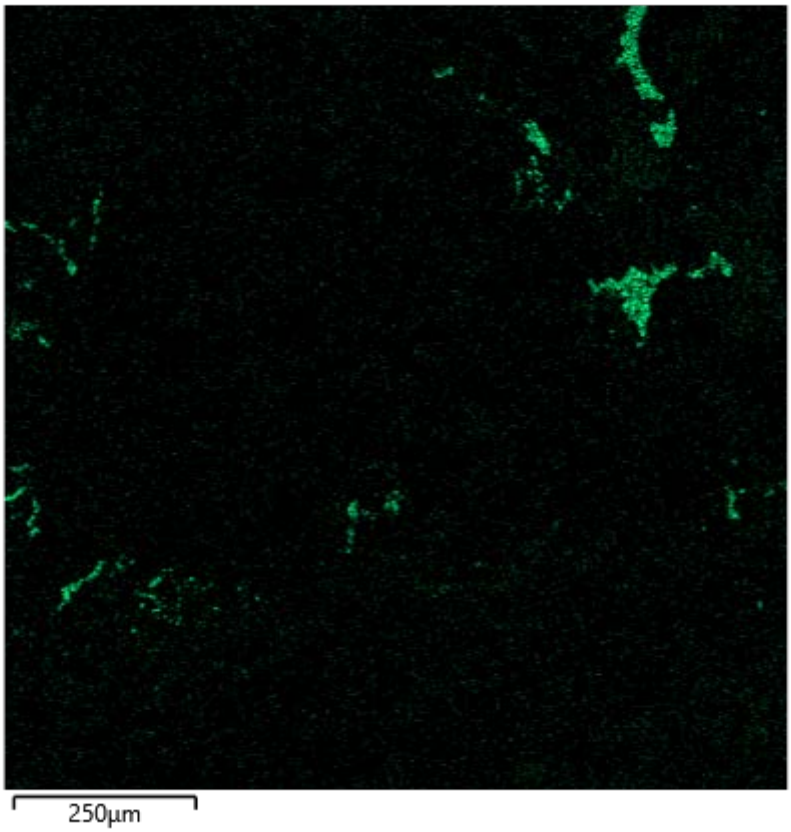

Ni Kα1
250µm
O Kα1
250µm

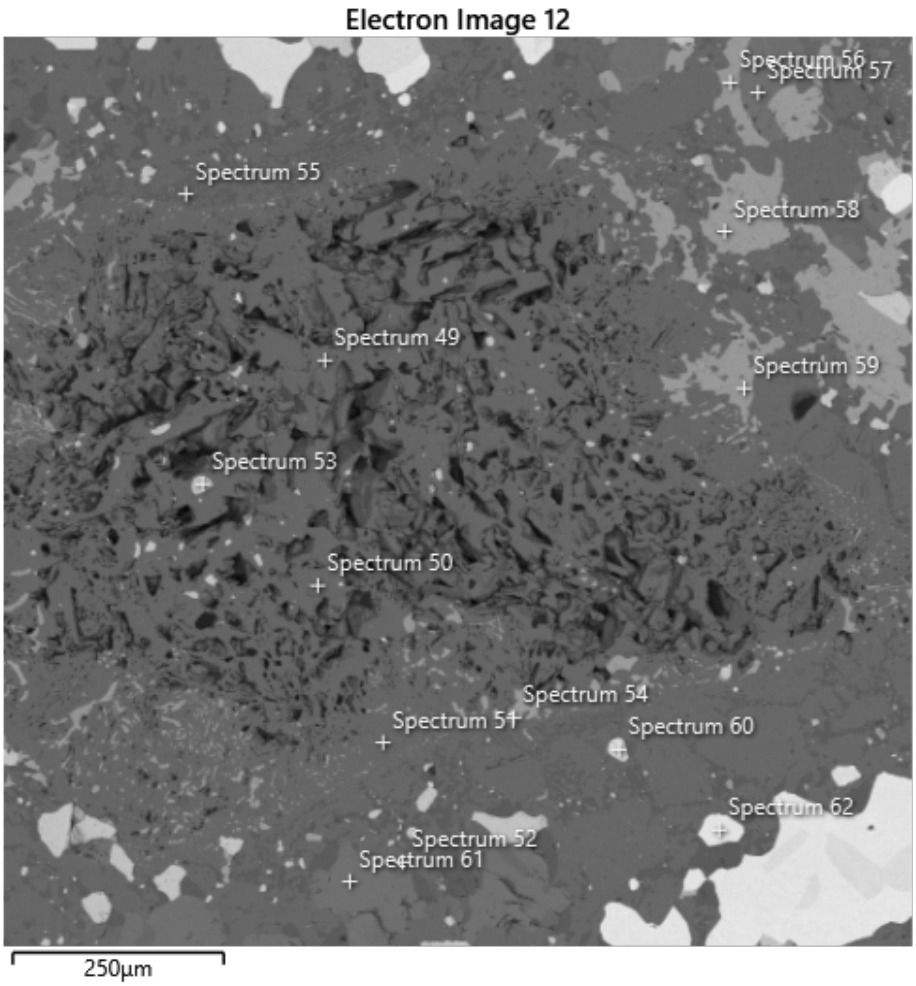

P Kα1
250µm
S Kα1
250µm

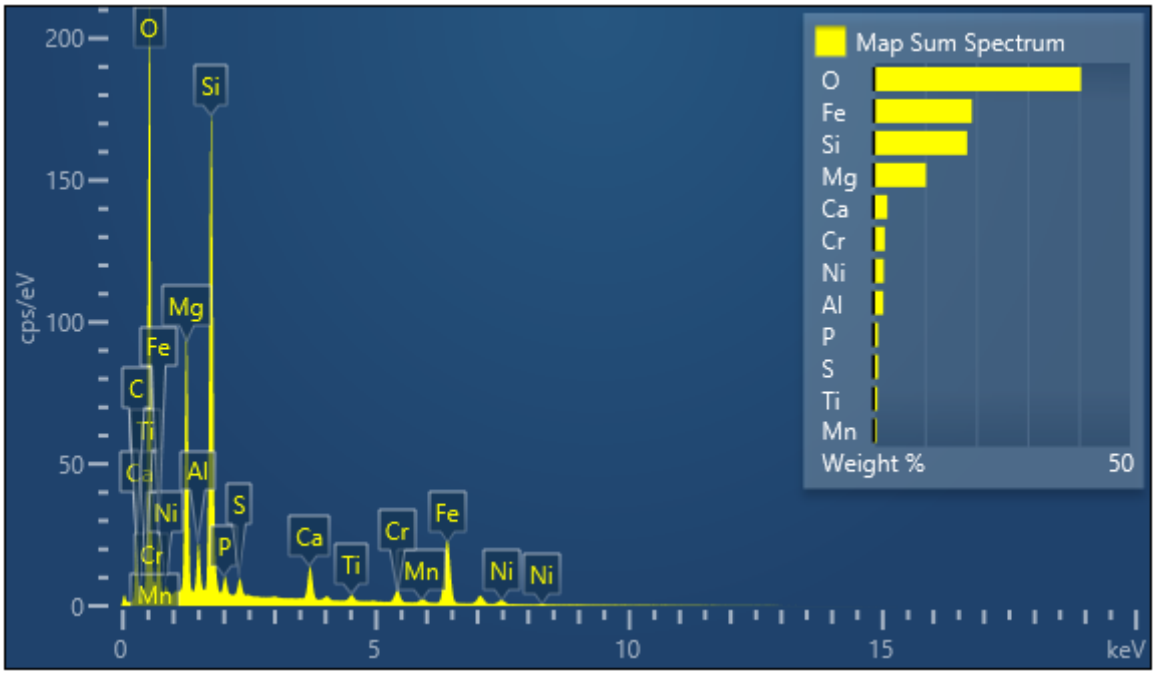
Si Kα1

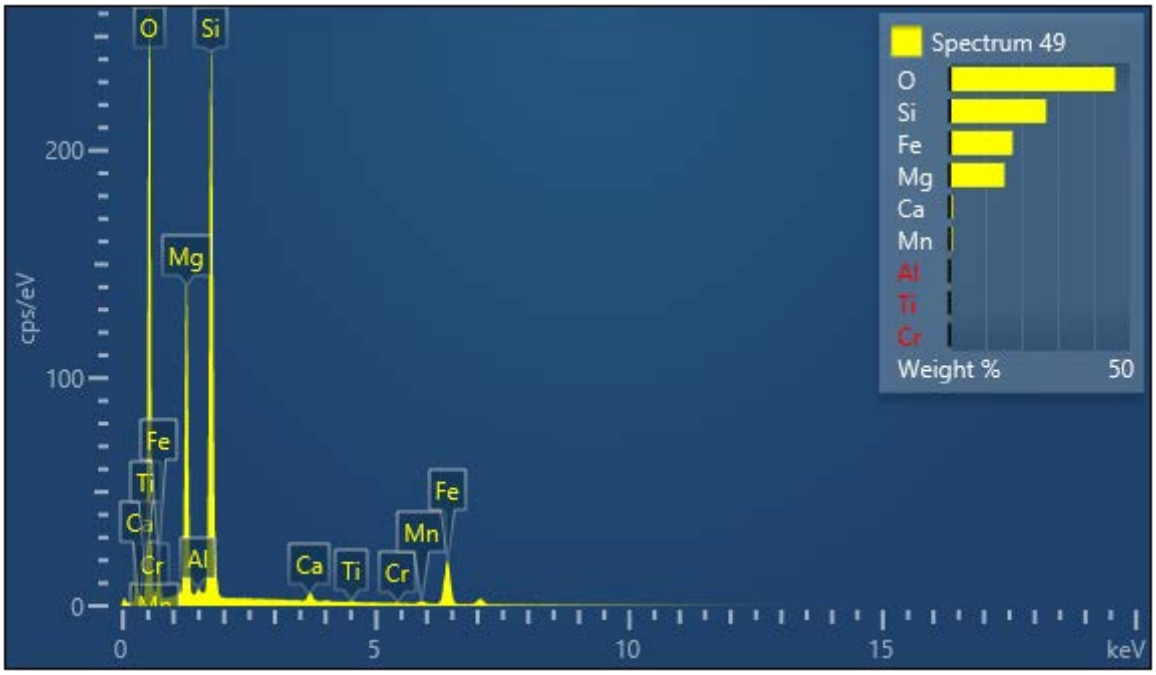


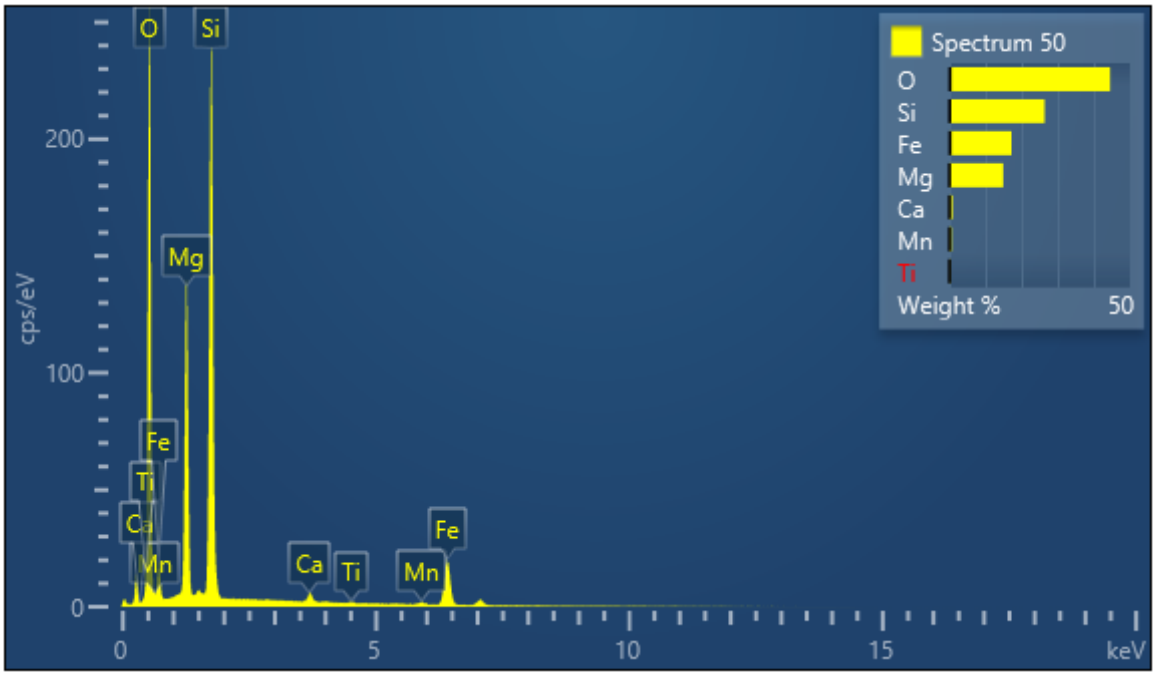
Ti Kα1

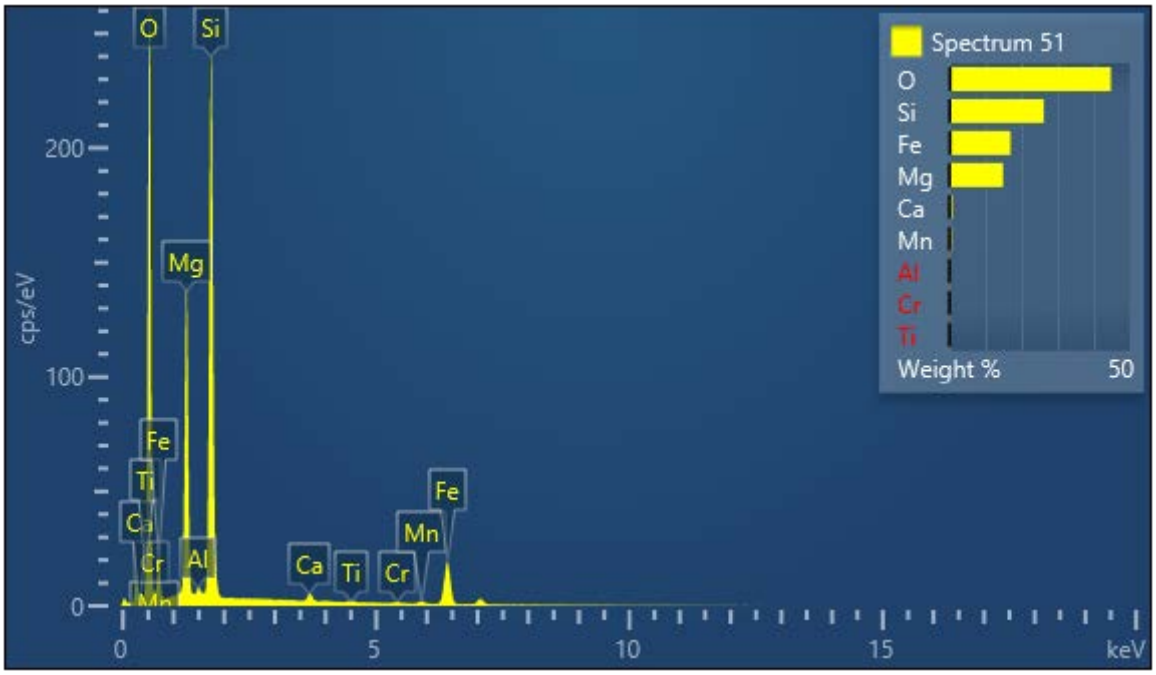


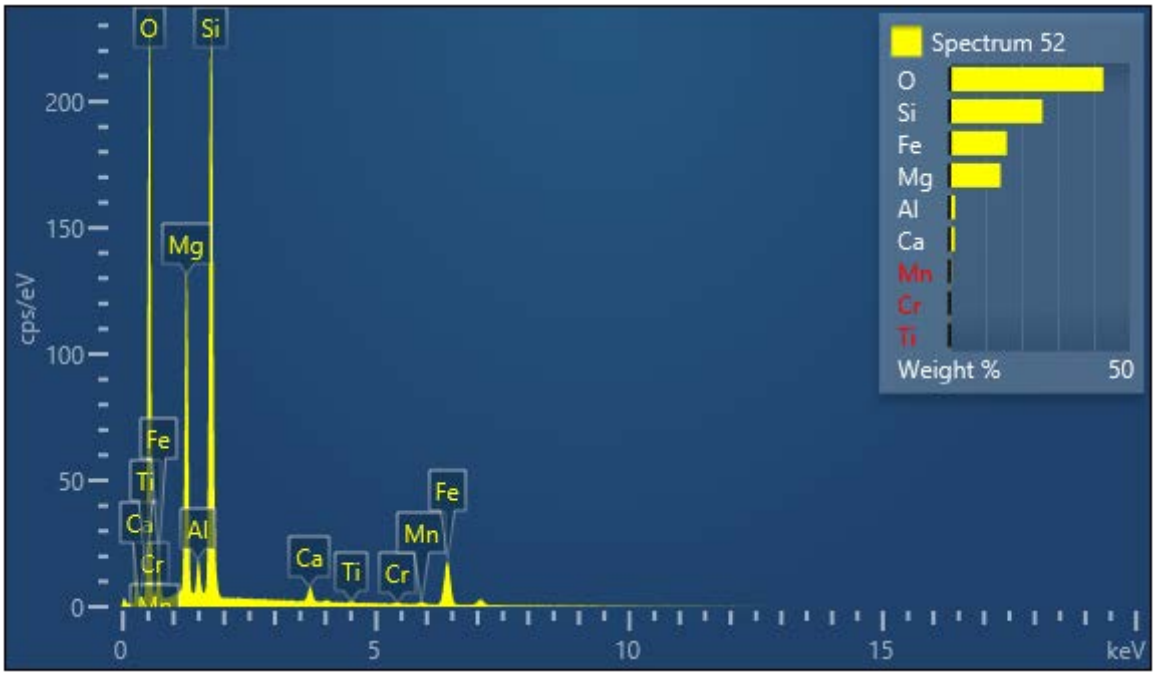

Electron Image 12
Spectrum 56
Spectrum 57
Spectrum 55
Spectrum 58
Spectrum 49
Spectrum 59
Spectrum 53
Spectrum 50
Spectrum 54
Spectrum 51
Spectrum 60
Spectrum 62
Spectrum 52
Spectrum 61
250µm

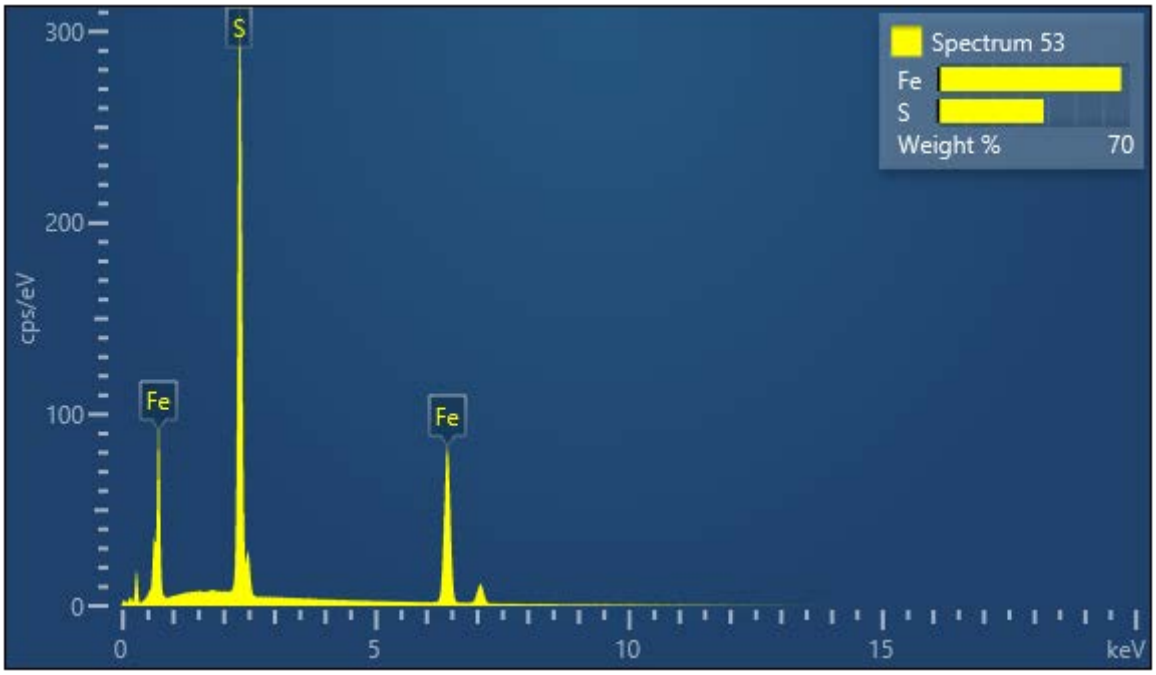

Map Sum Spectrum
O
Fe
Si
Mg
Ca
Cr
Ni
Al
P
S
Ti
Mn
Weight %
50
cps/eV
200
150
100
50
0
0
5
10
15
keV

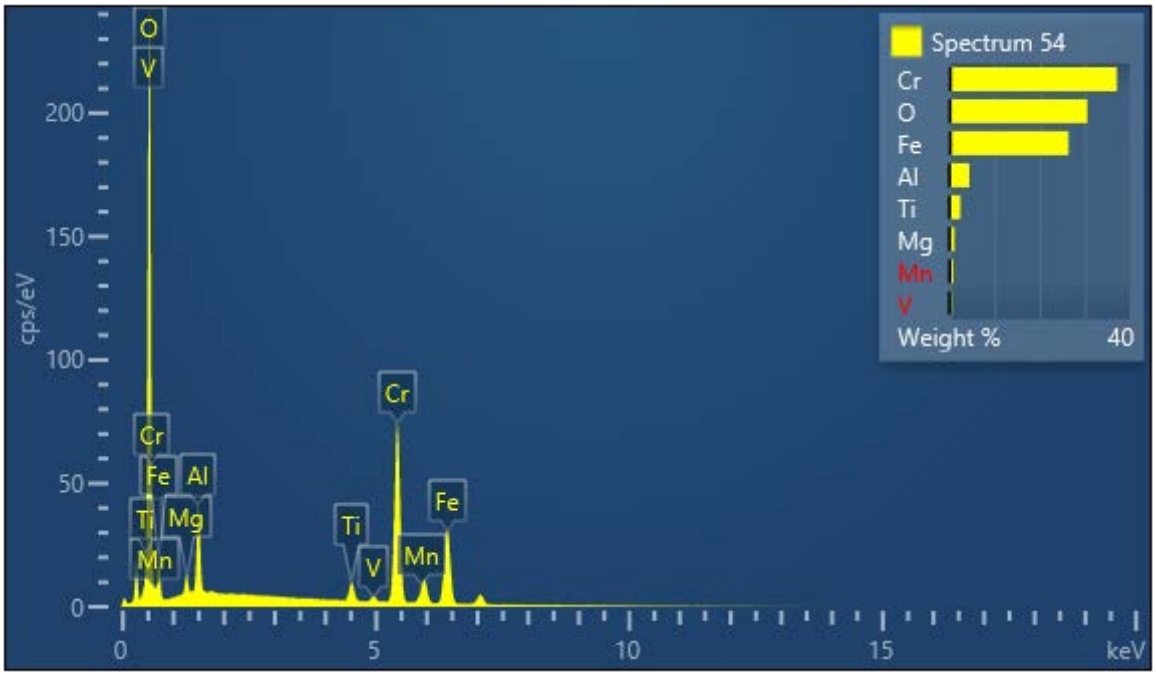

Spectrum 49
O
Si
Fe
Mg
Ca
Mn
Al
Ti
Cr
Weight %
50
cps/eV
200
100
0
0
5
10
15
keV
O
Si
Mg
Fe
Ti
Ca
Cr
Al
Ca
Ti
Cr
Mn
Fe

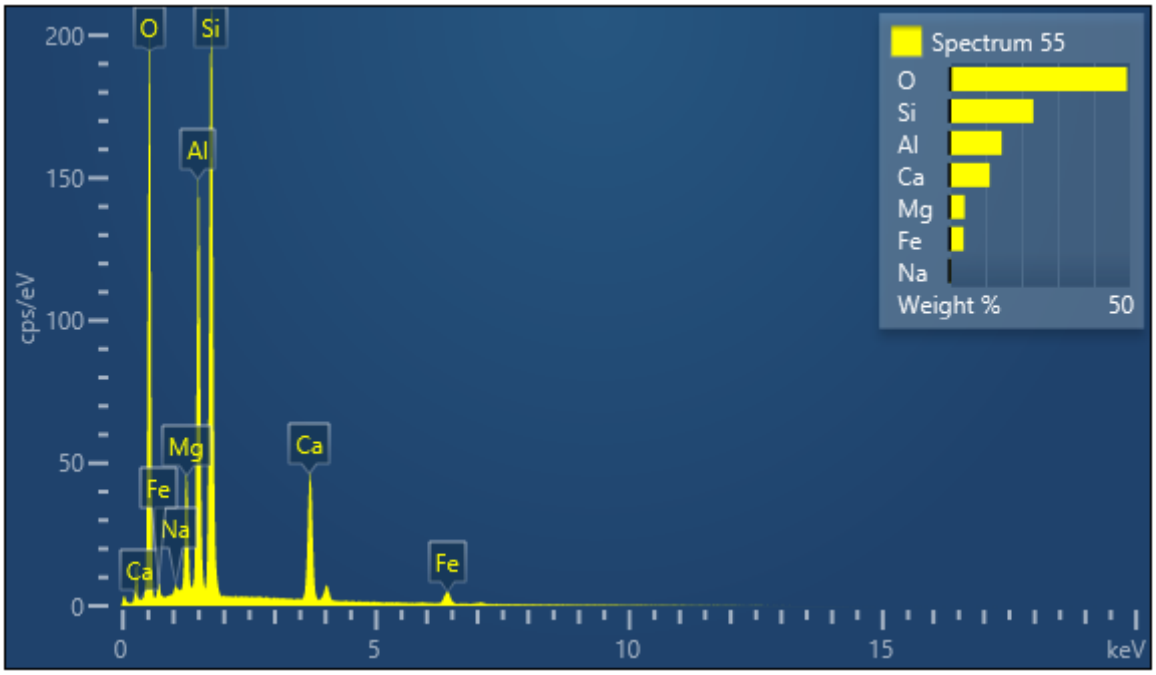

Spectrum 50
O
Si
Fe
Mg
Ca
Mn
Ti
Weight %
50
cps/eV
200
100
0
0
5
10
15
keV
O
Si
Mg
Fe
Ti
Ca
Mn
Ca
Ti
Mn
Fe

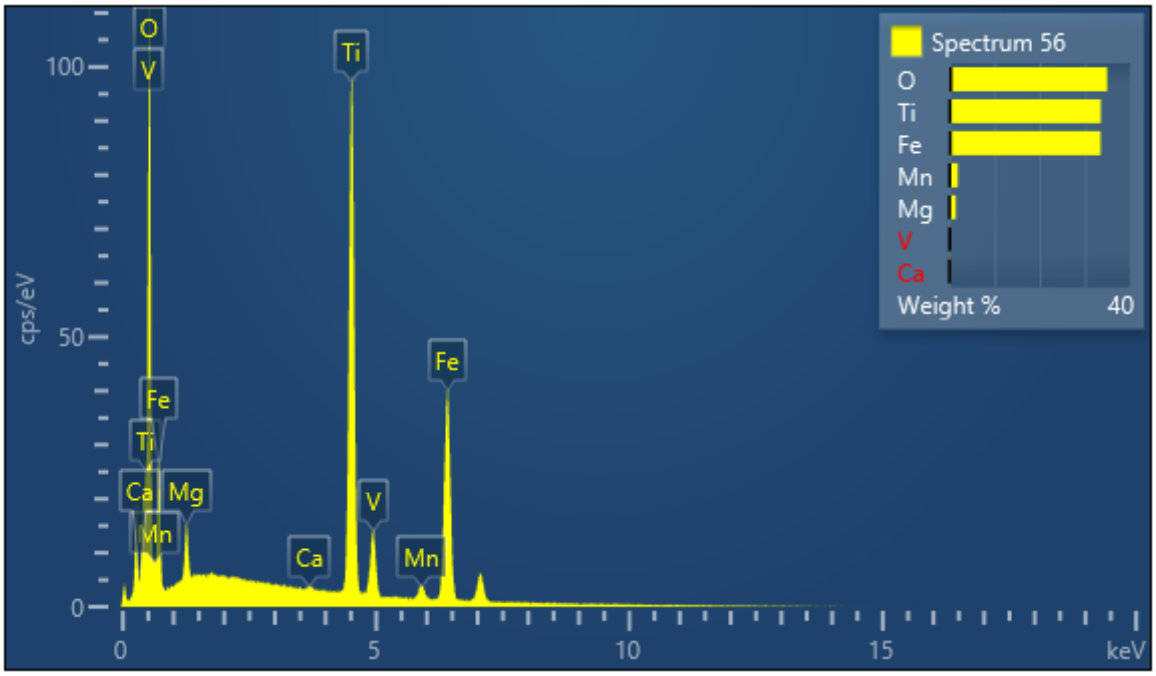

Spectrum 51
O
Si
Fe
Mg
Ca
Mn
Al
Cr
Ti
Weight %
50
cps/eV
200
100
0
0
5
10
15
keV
O
Si
Mg
Fe
Ti
Ca
Cr
Al
Ca
Ti
Cr
Fe
Mn
Fe

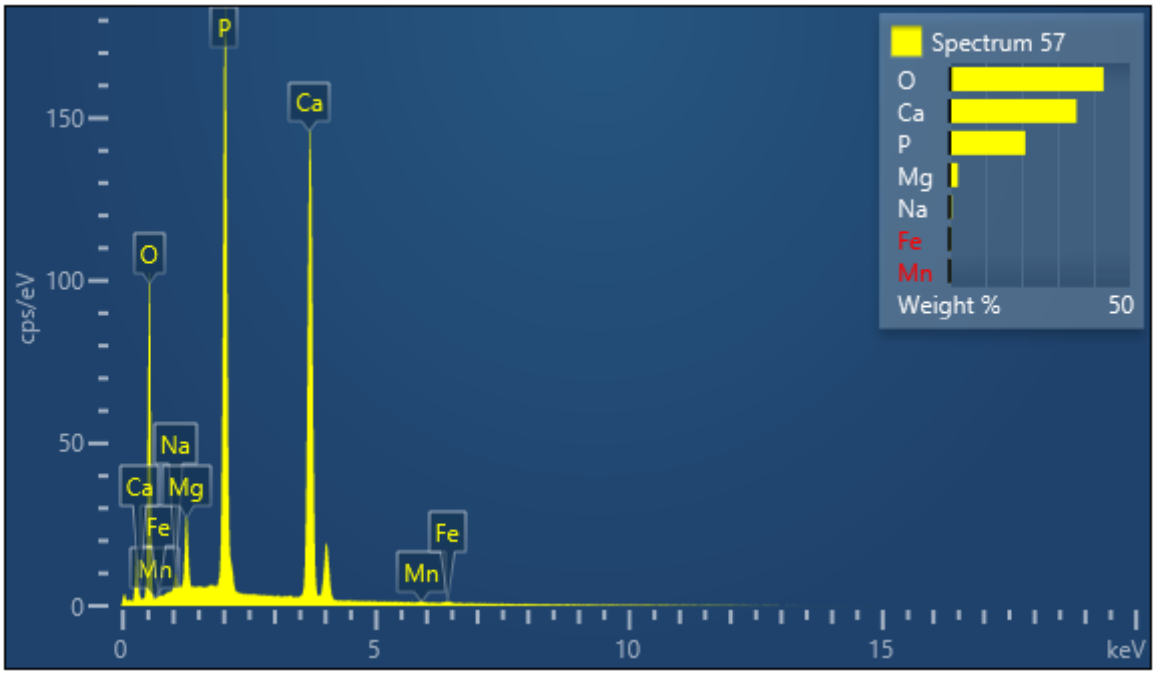

Spectrum 52
O
Si
Fe
Mg
Al
Ca
Mn
Cr
Ti
Weight %
50
cps/eV
200
150
100
50
0
0
5
10
15
keV
O
Si
Mg
Fe
Ti
Ca
Cr
Al
Ca
Ti
Cr
Fe
Mn
Fe

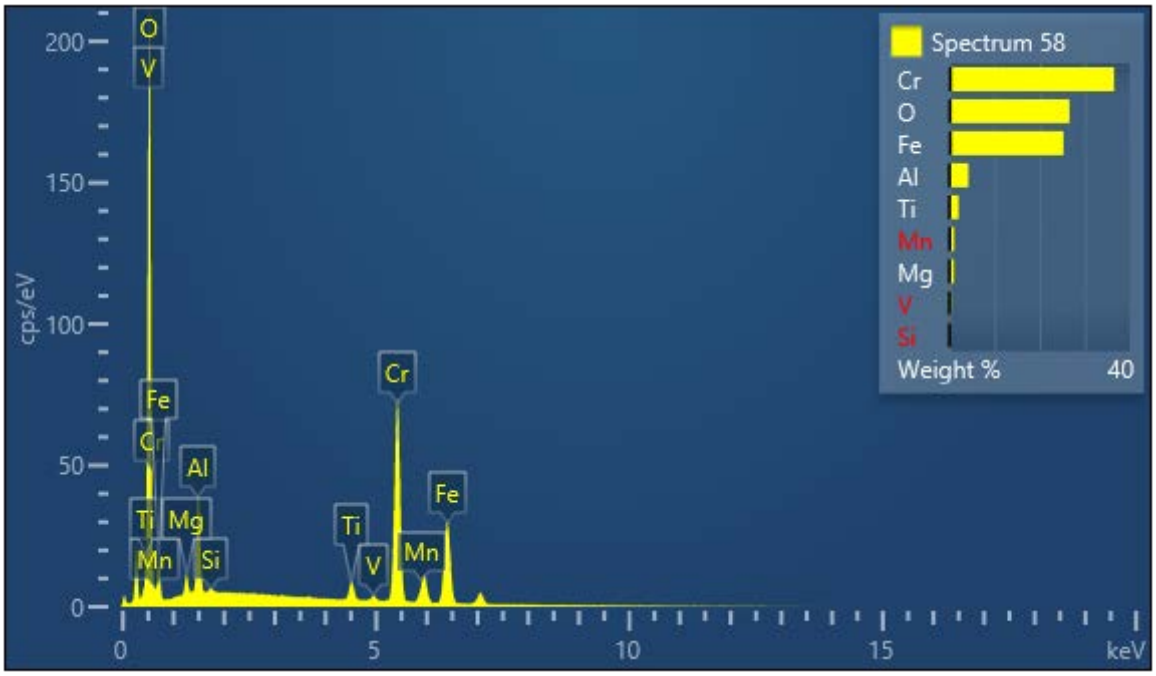

Spectrum 53
Fe
S
Weight %
70
300
200
100
0
cps/eV
S
Fe
Fe
0
5
10
15
keV

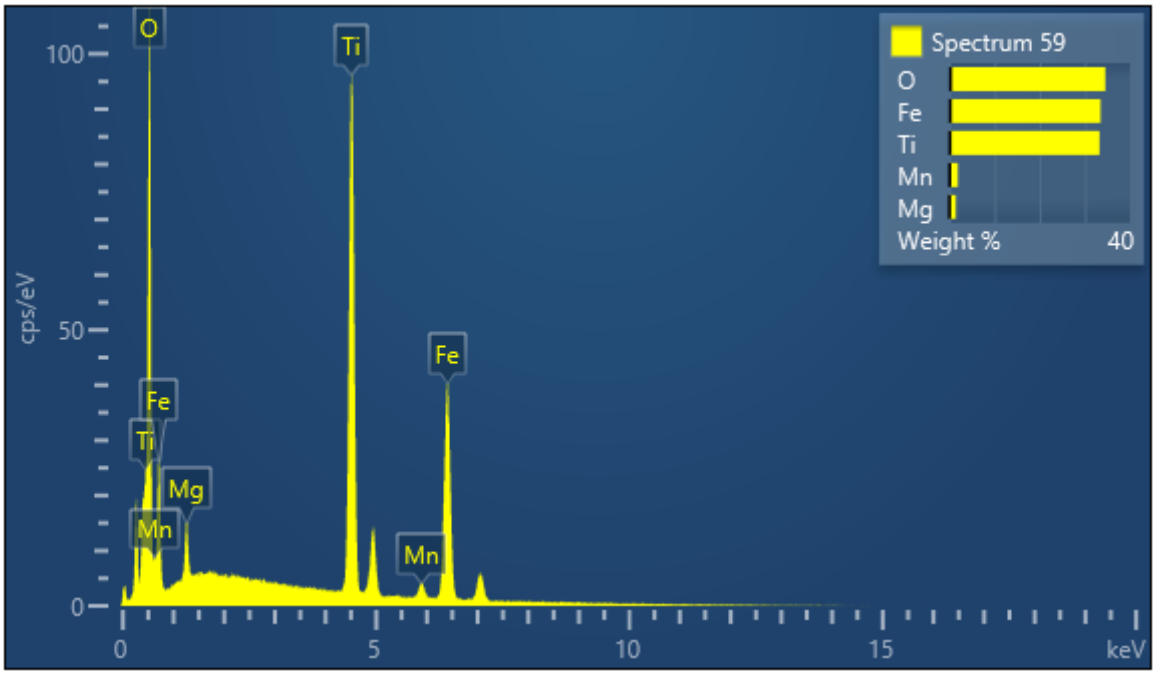

Spectrum 54
Cr
O
Fe
Al
Ti
Mg
Mn
V
Weight %
40
200
150
100
50
0
cps/eV
O
V
Cr
Fe
Al
Ti
Mg
Mn
Cr
Ti
V
Mn
Fe
0
5
10
15
keV

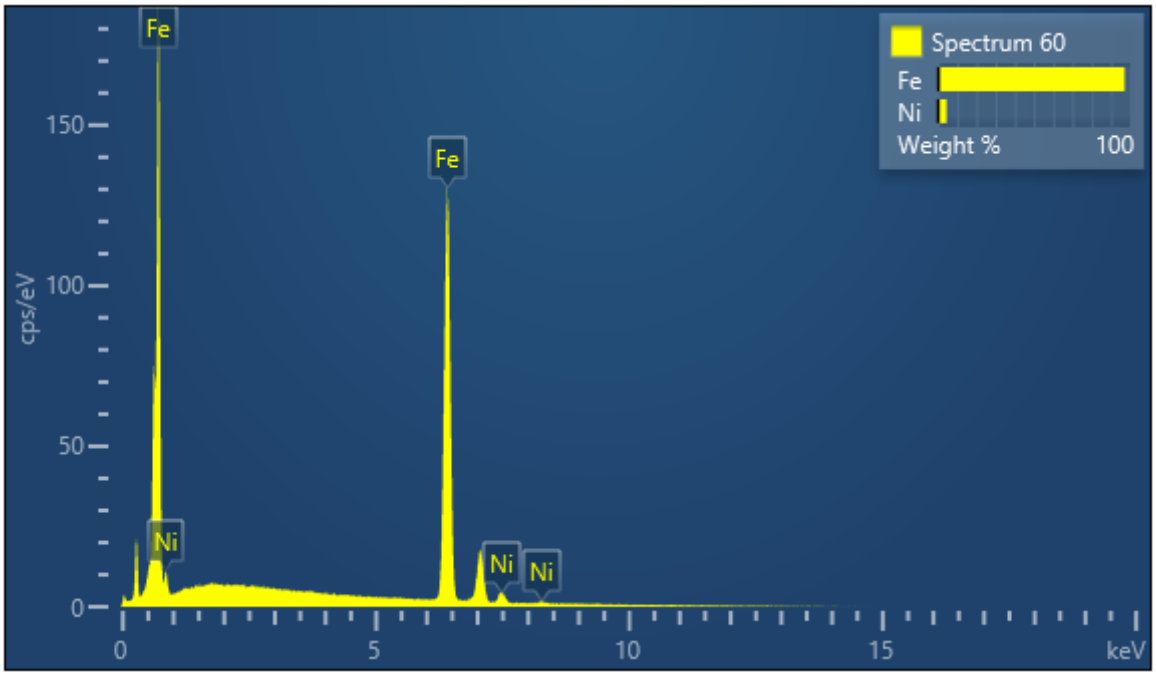

Spectrum 55
O
Si
Al
Ca
Mg
Fe
Na
Weight %
50
cps/eV
keV

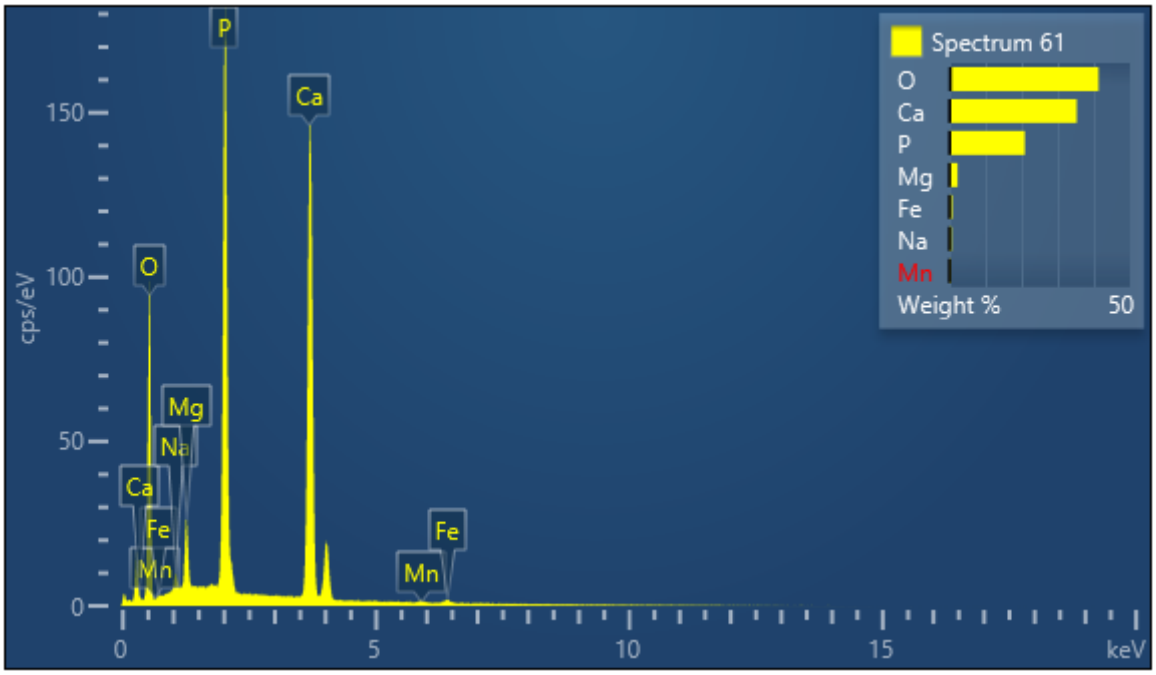

Spectrum 56
O
Ti
Fe
Mn
Mg
V
Ca
Weight %
40
cps/eV
keV

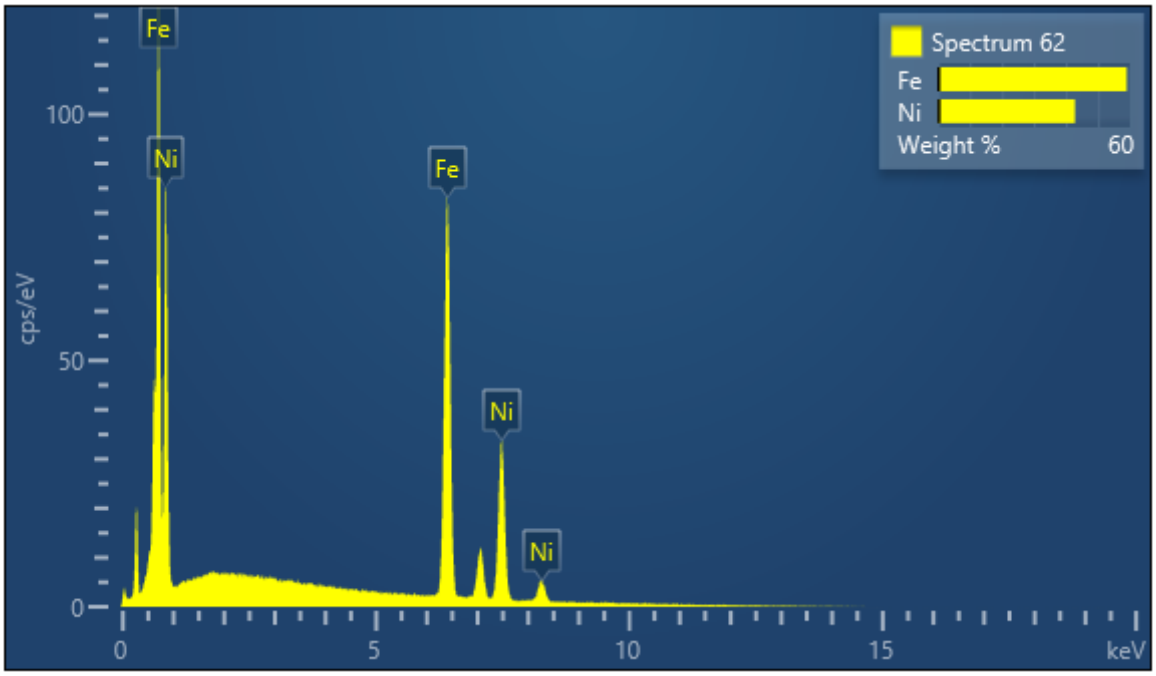

Spectrum 57
O
Ca
P
Mg
Na
Fe
Mn
Weight %
50
cps/eV
150
100
50
0
0
5
10
15
keV
P
Ca
O
Na
Ca
Mg
Fe
Mn
Fe
Mn


Spectrum 58
Cr
O
Fe
Al
Ti
Mn
Mg
V
Si
Weight %
40
cps/eV
200
150
100
50
0
0
5
10
15
keV
O
V
Fe
Cr
Al
Ti
Mg
Mn
Si
Cr
Ti
V
Fe
Mn

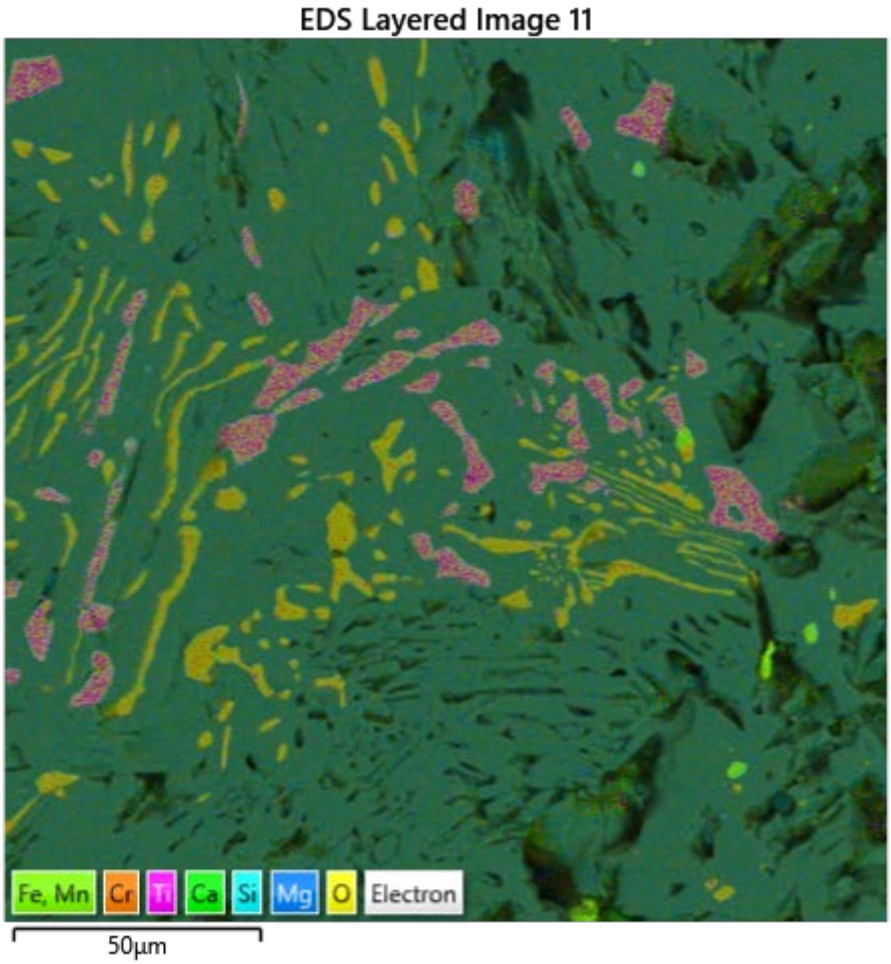

Spectrum 59
O
Fe
Ti
Mn
Mg
Weight %
40
cps/eV
100
50
0
O
Ti
Fe
Fe
Ti
Mg
Mn
Mn
0
5
10
15
keV

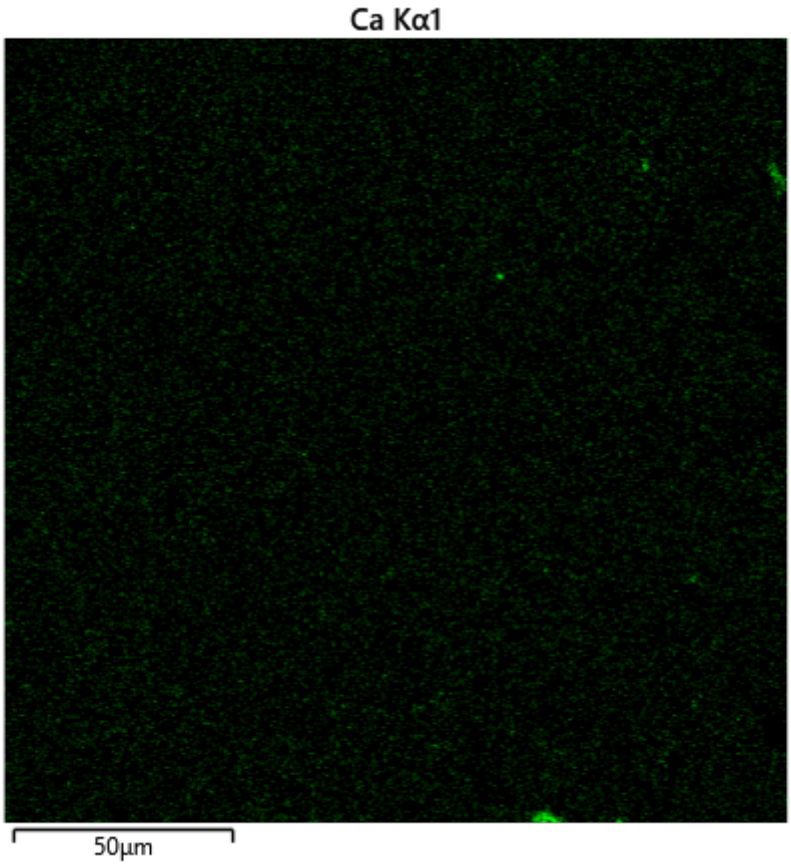

Spectrum 60
Fe
Ni
Weight %
100
cps/eV
150
100
50
0
Fe
Fe
Ni
Ni
Ni
0
5
10
15
keV

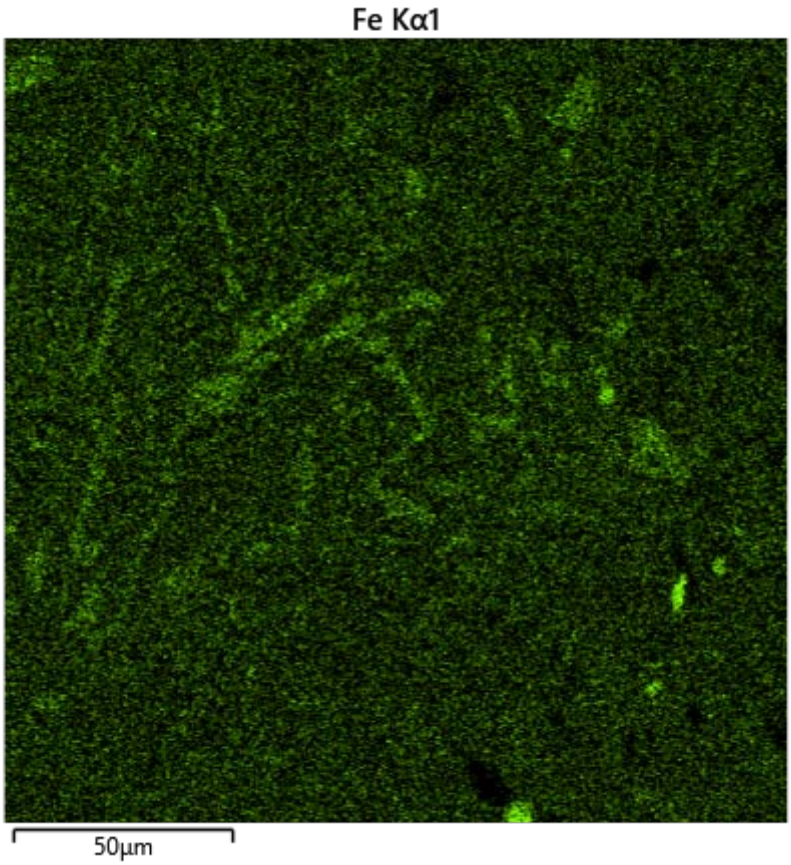

Spectrum 61
O
Ca
P
Mg
Fe
Na
Mn
Weight %
50
cps/eV
150
100
50
0
O
P
Ca
Mg
Na
Ca
Fe
Mn
Fe
Mn
0
5
10
15
keV

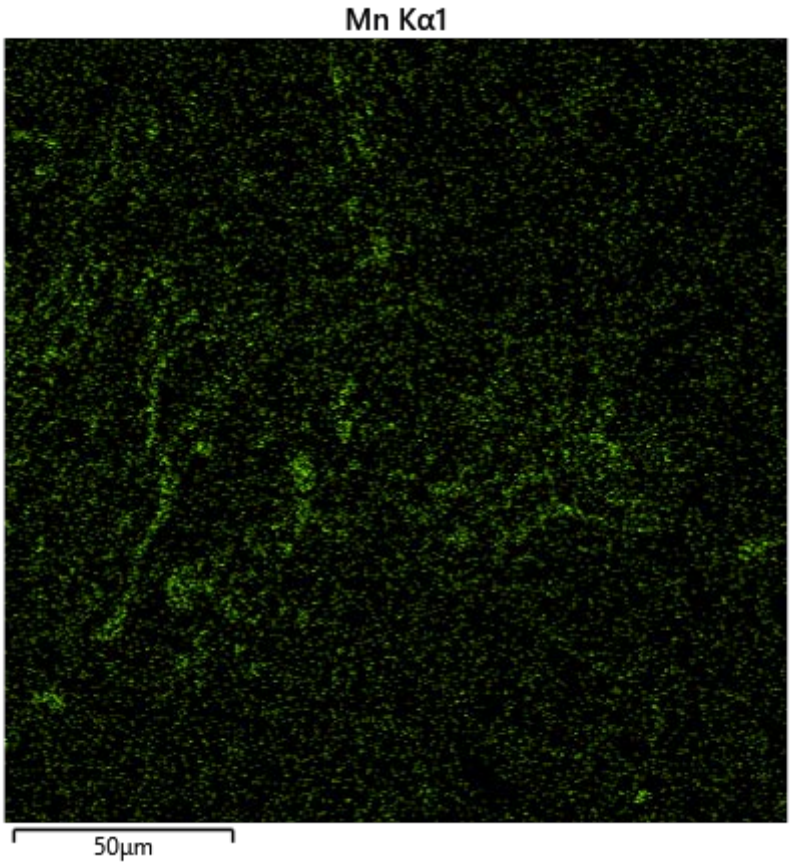

Spectrum 62
Fe
Ni
Weight %
60
cps/eV
100
50
0
Fe
Ni
Fe
Ni
Ni
0
5
10
15
keV

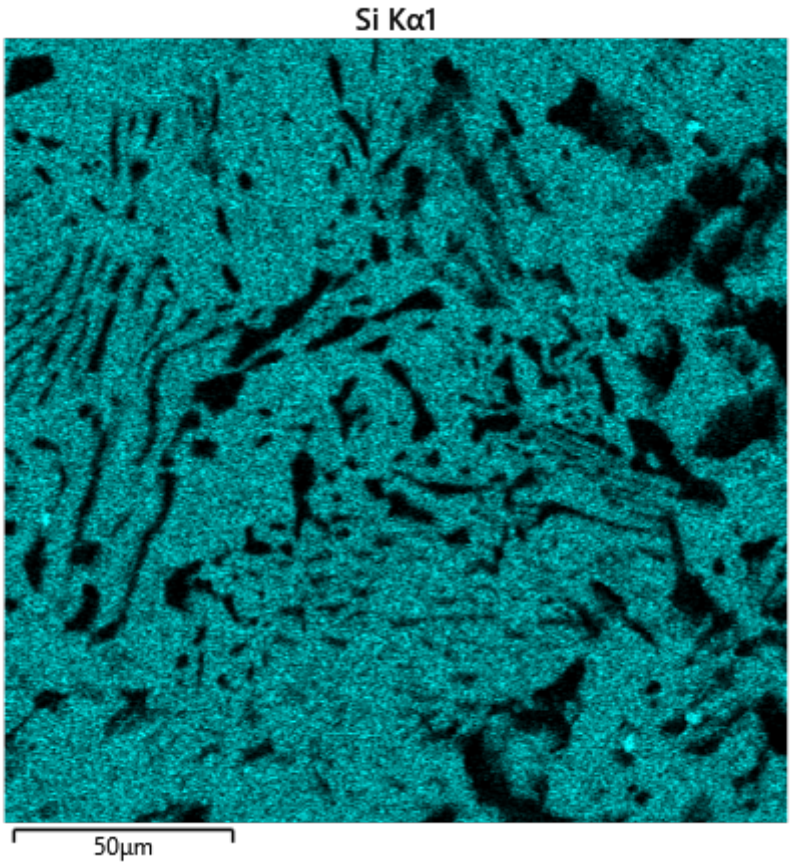
Område 6

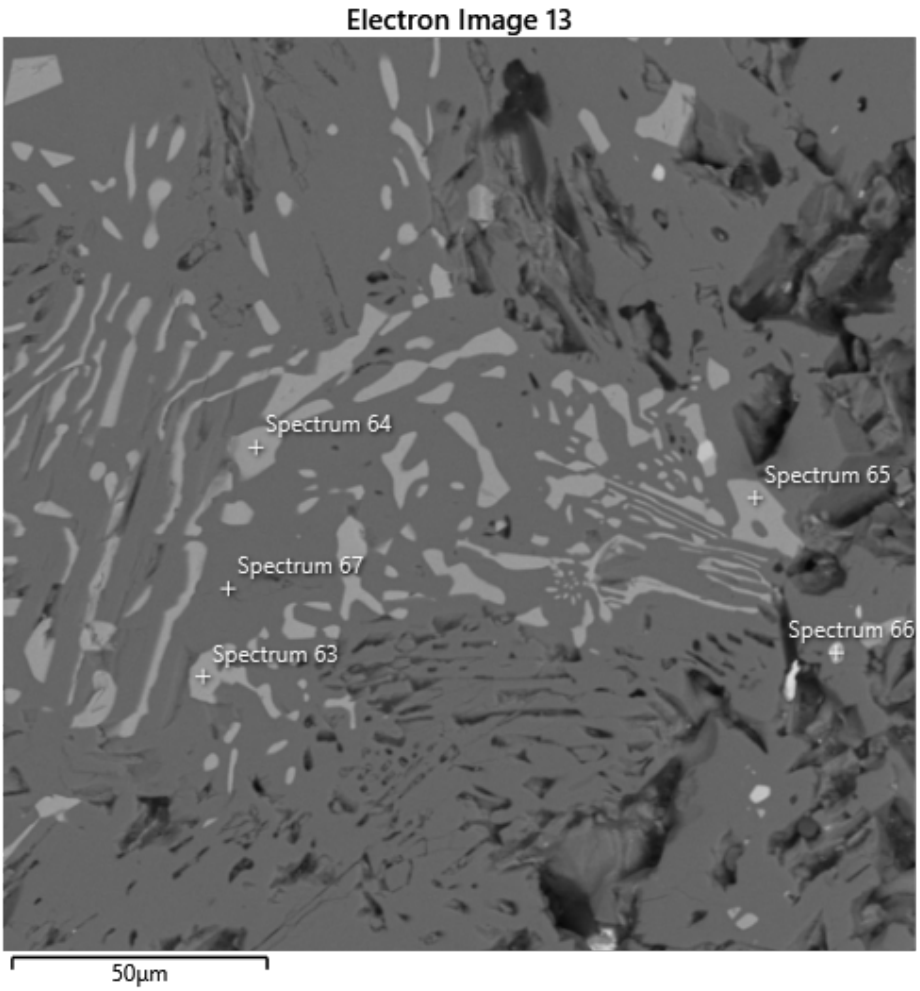


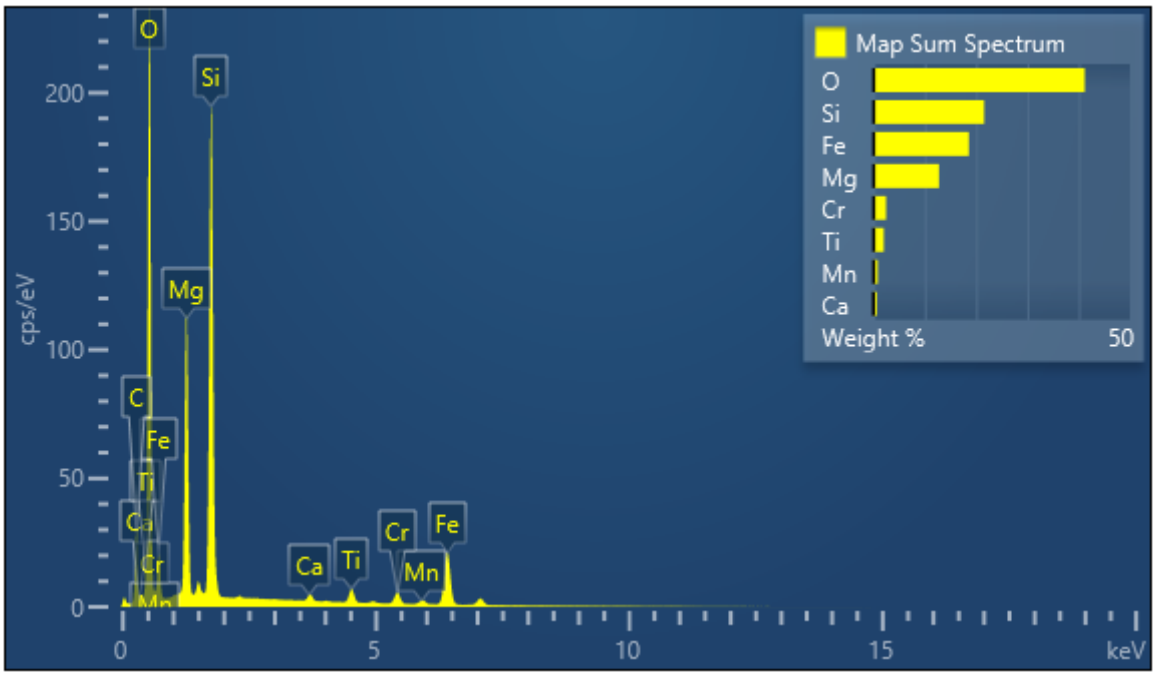

Ca Kα1
50µm
Cr Kα1
50µm

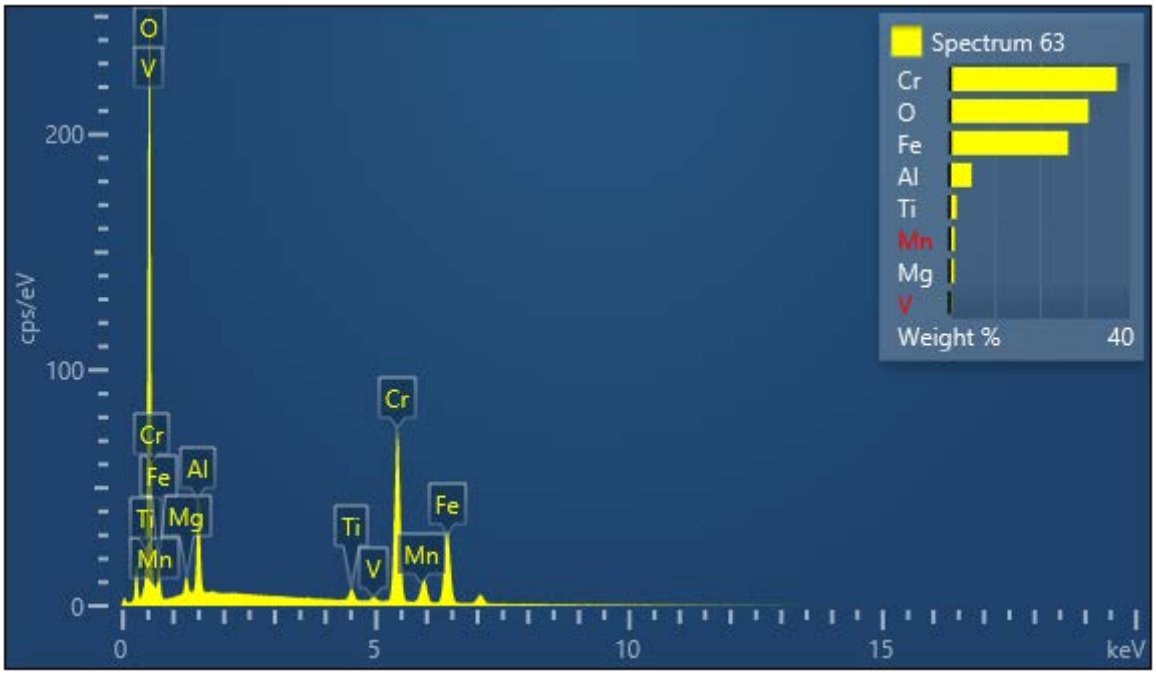

Fe Kα1
50µm
Mg Kα1_2
50µm

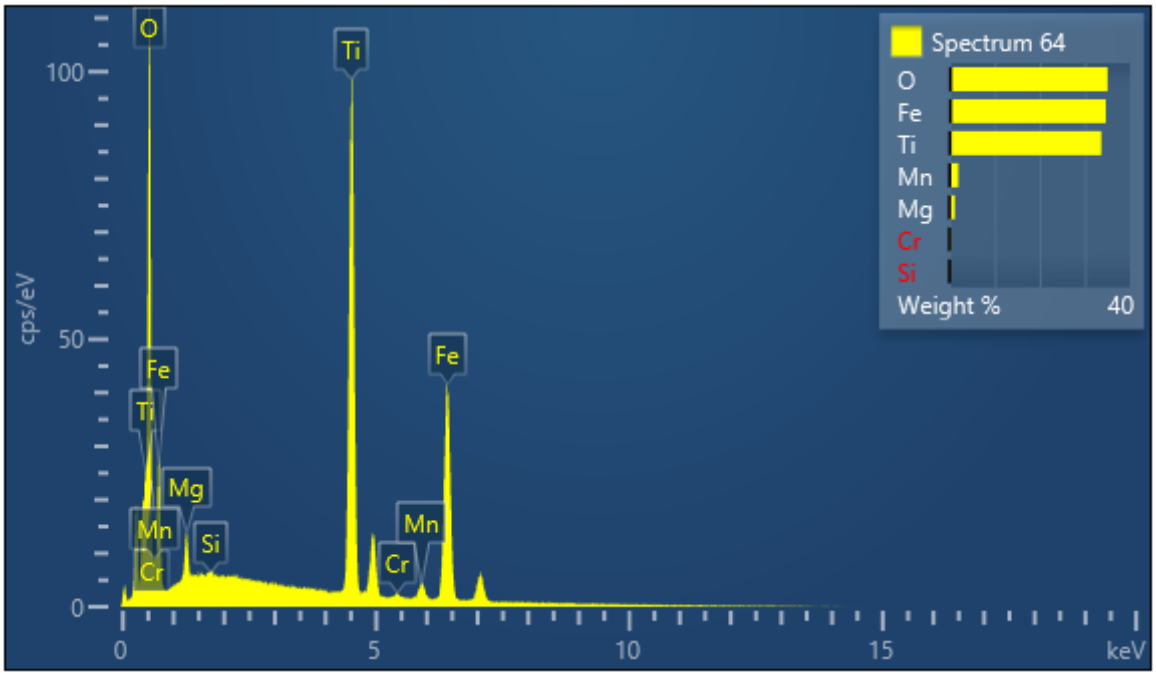

Mn Kα1
50µm
O Kα1
50µm

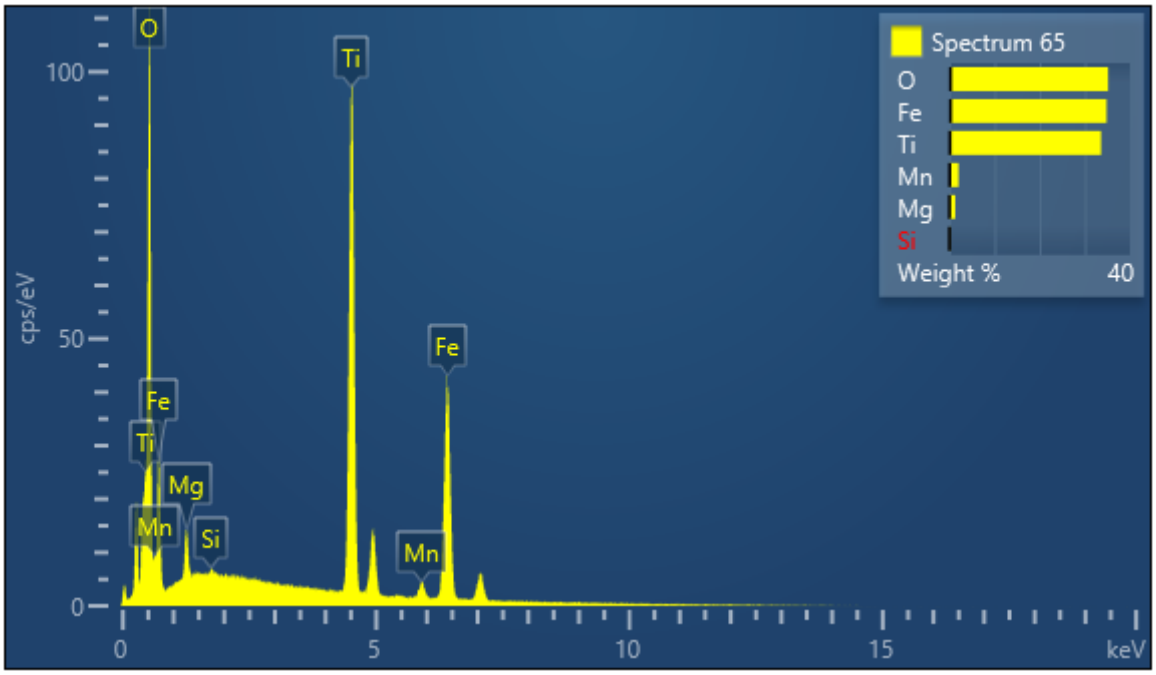

Si Kα1
50µm
Ti Kα1
50µm

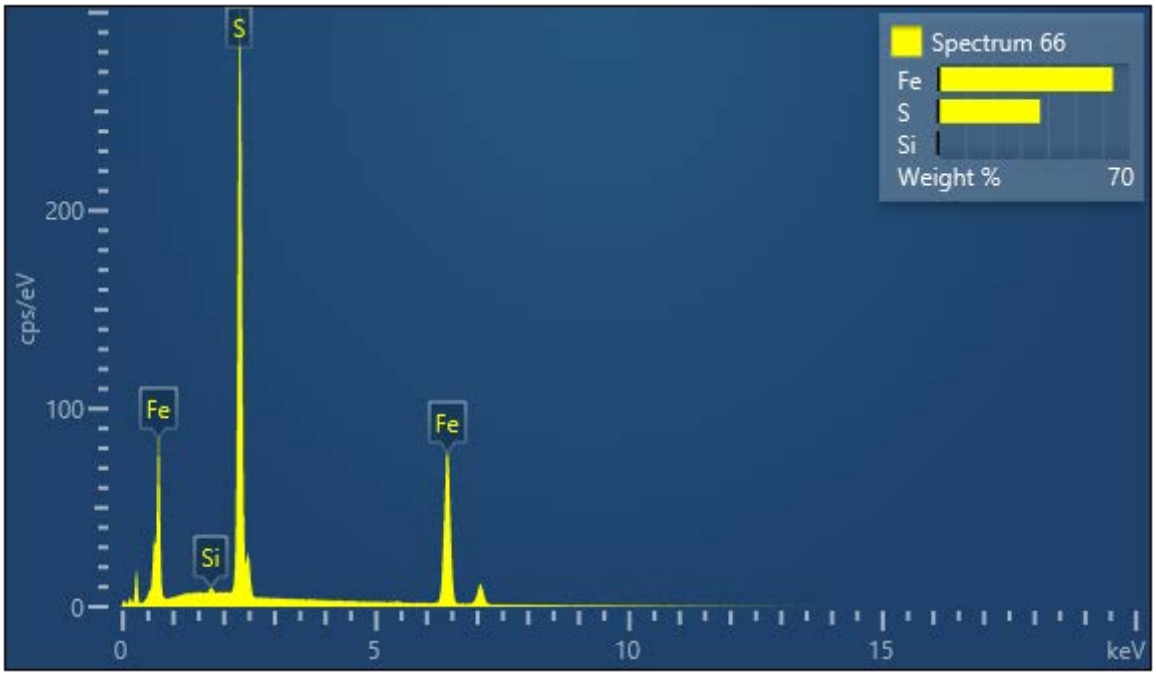

Electron Image 13
Spectrum 64
Spectrum 65
Spectrum 67
Spectrum 66
Spectrum 63
50µm

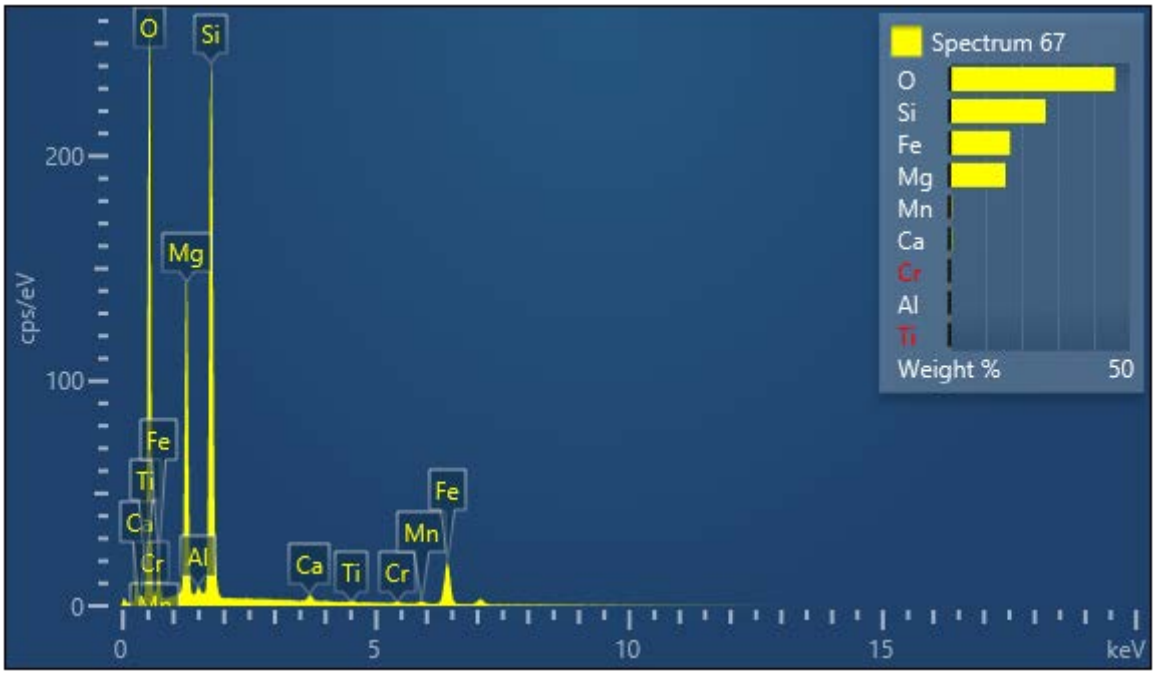

Map Sum Spectrum
O
Si
Fe
Mg
Cr
Ti
Mn
Ca
Weight %
50
cps/eV
200
150
100
50
0
0
5
10
15
keV


Spectrum 63
Cr
O
Fe
Al
Ti
Mn
Mg
V
Weight %
40
cps/eV
200
100
0
O
V
Cr
Fe
Al
Ti
Mg
Mn
Ti
V
Cr
Mn
Fe
0
5
10
15
keV

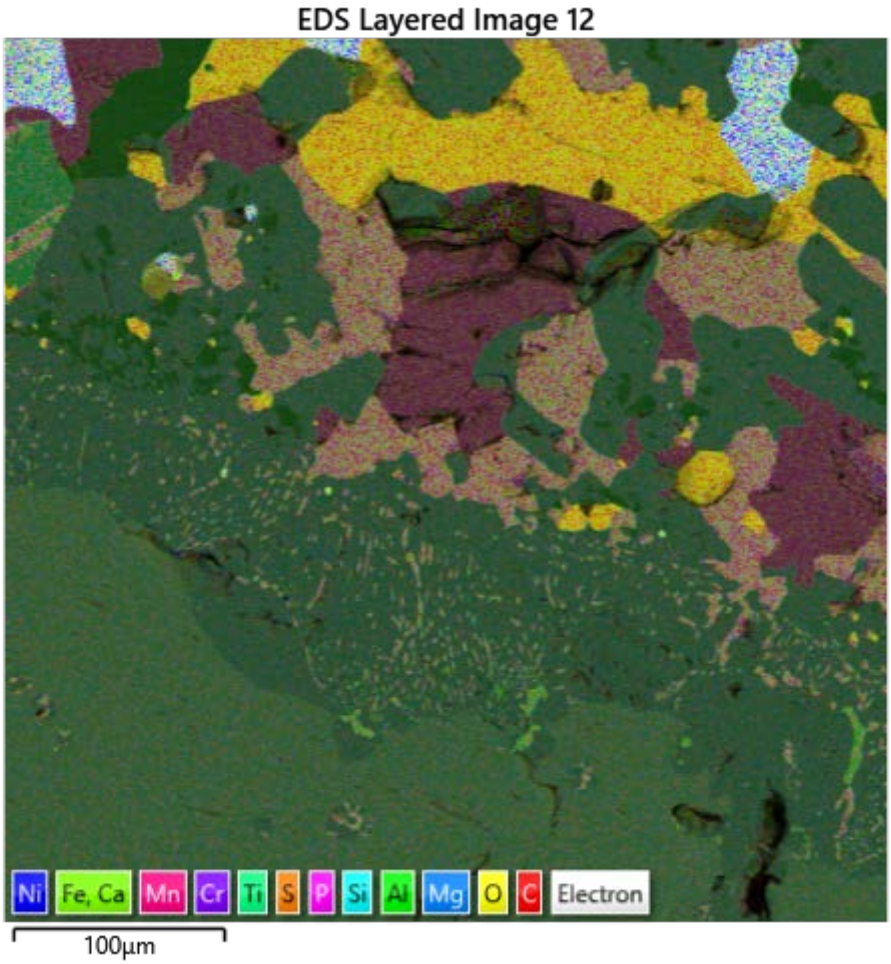

Spectrum 64
O
Fe
Ti
Mn
Mg
Cr
Si
Weight %
40
cps/eV
100
50
0
O
Ti
Fe
Ti
Mg
Mn
Si
Cr
Mn
Cr
Fe
0
5
10
15
keV


Spectrum 65
O
Fe
Ti
Mn
Mg
Si
Weight %
40
cps/eV
100
50
0
O
Ti
Fe
Fe
Ti
Mg
Mn
Si
Mn
0
5
10
15
keV

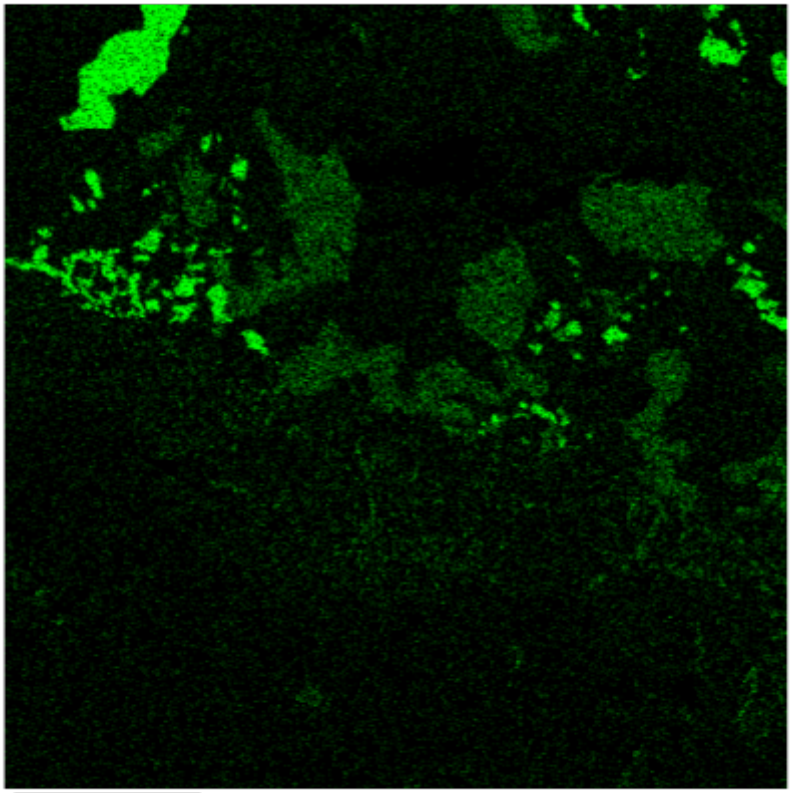

Spectrum 66
Fe
S
Si
Weight %
70
cps/eV
200
100
0
S
Fe
Fe
Si
0
5
10
15
keV


Spectrum 67
O
Si
Fe
Mg
Mn
Ca
Cr
Al
Ti
Weight %
50
cps/eV
200
100
0
O
Si
Mg
Fe
Ti
Ca
Cr
Al
Ca
Ti
Cr
Mn
Fe
0
5
10
15
keV

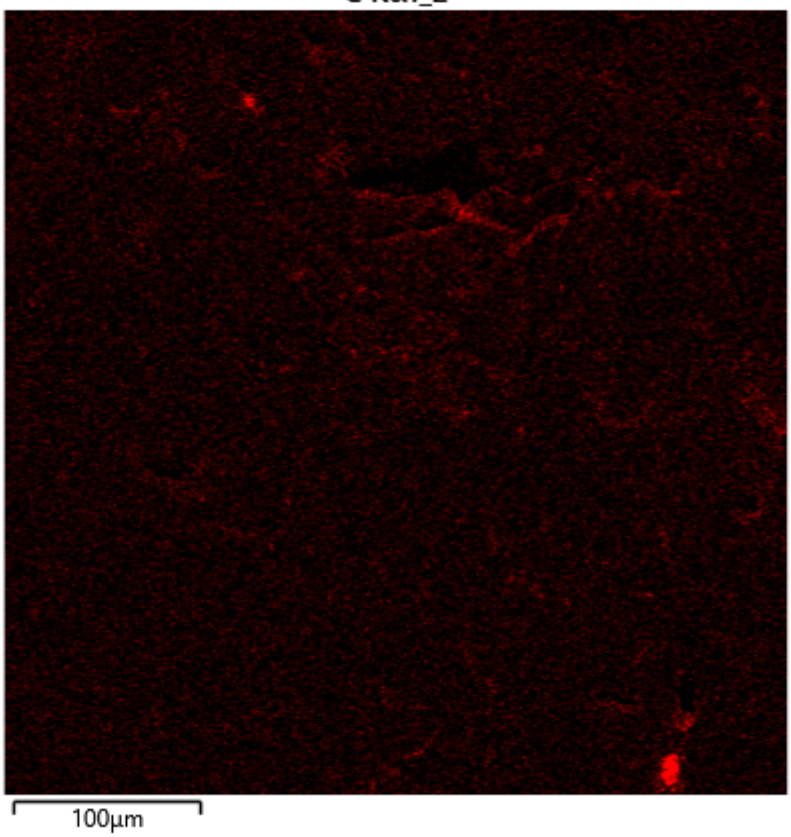
Område 7

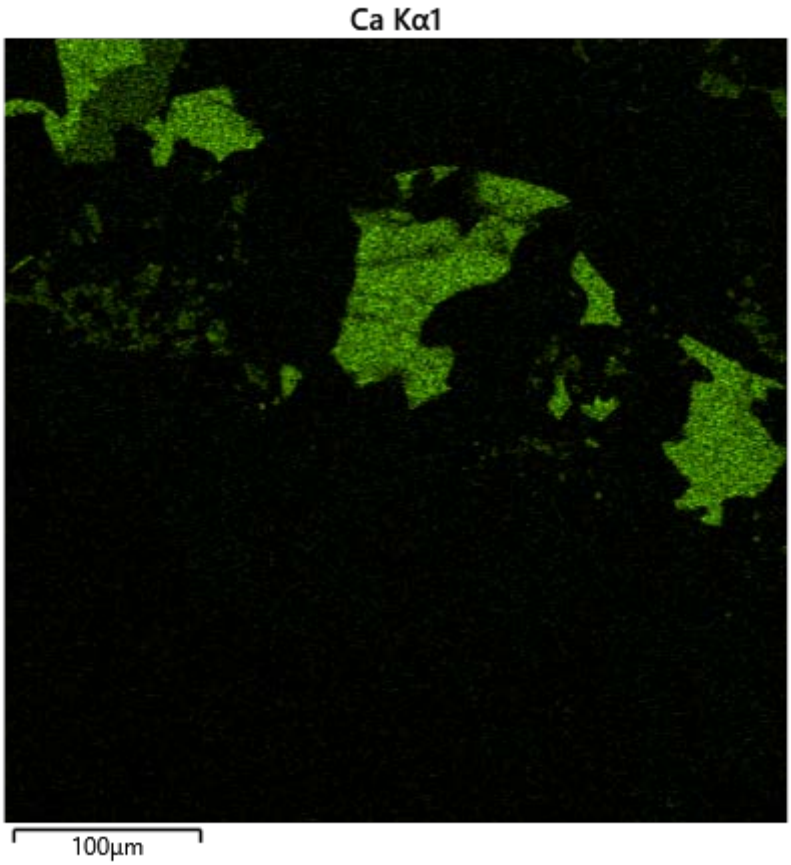

EDS Layered Image 12
Ni
Fe, Ca
Mn
Cr
Ti
S
P
Si
Al
Mg
O
C
Electron
100µm

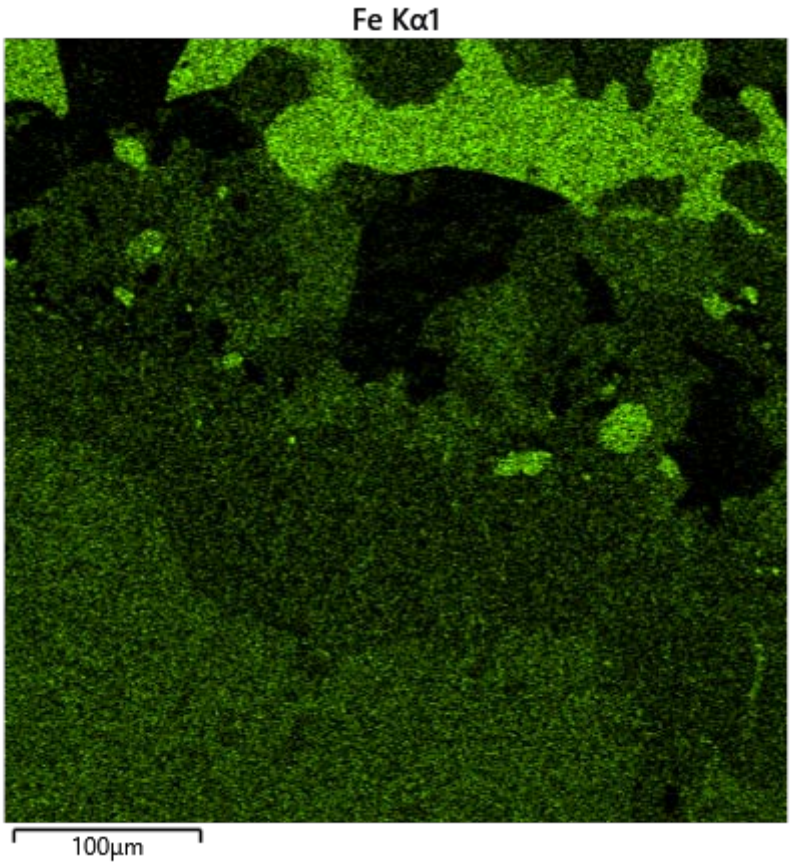
Al Kα1

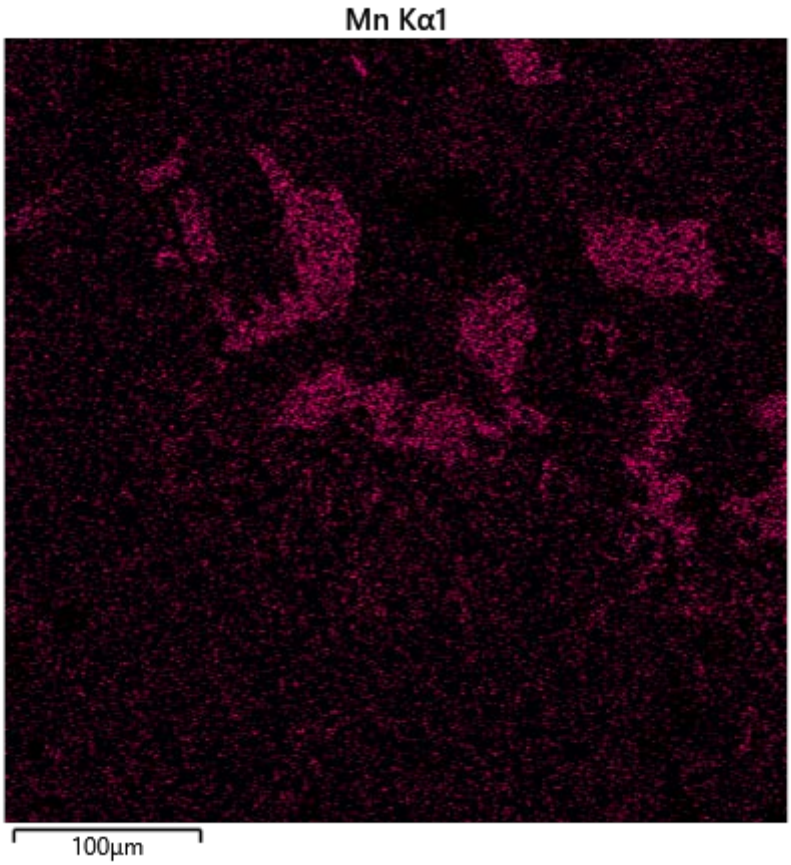


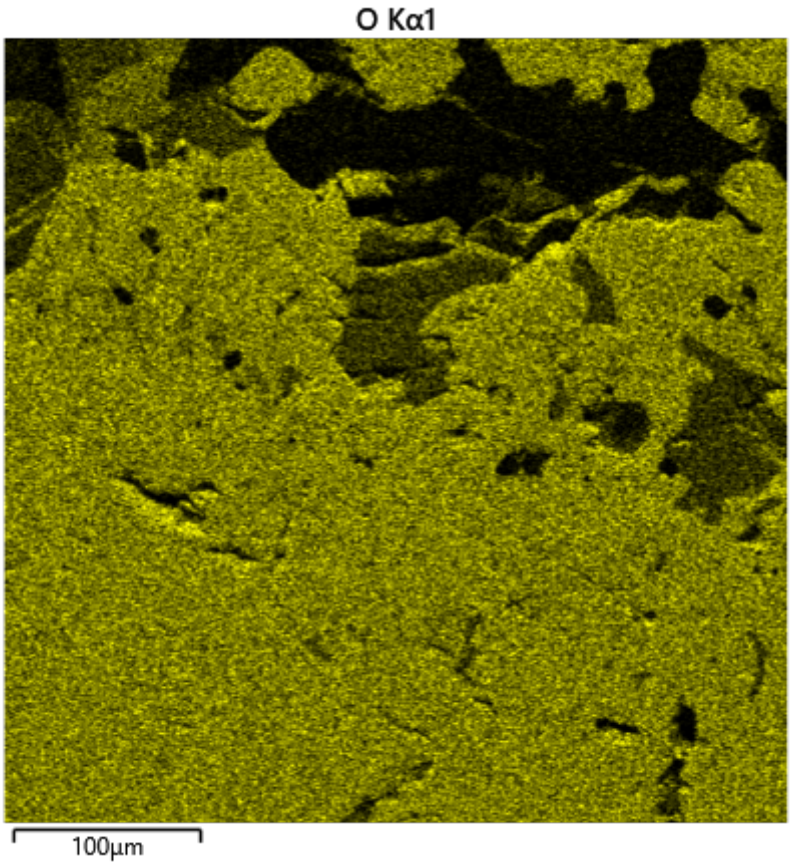
C Kα1_2

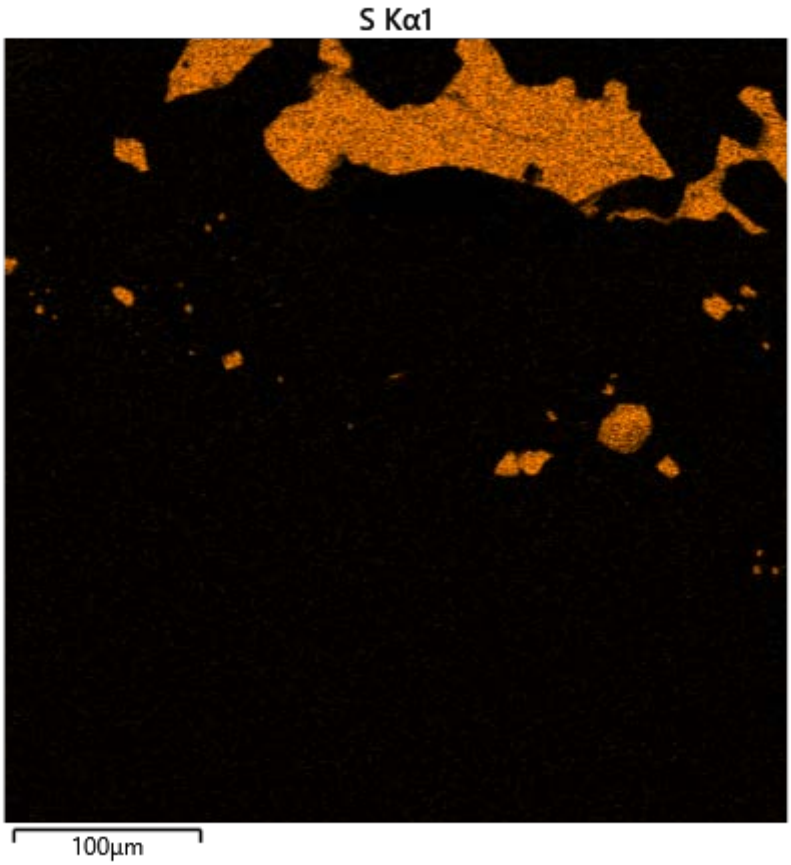


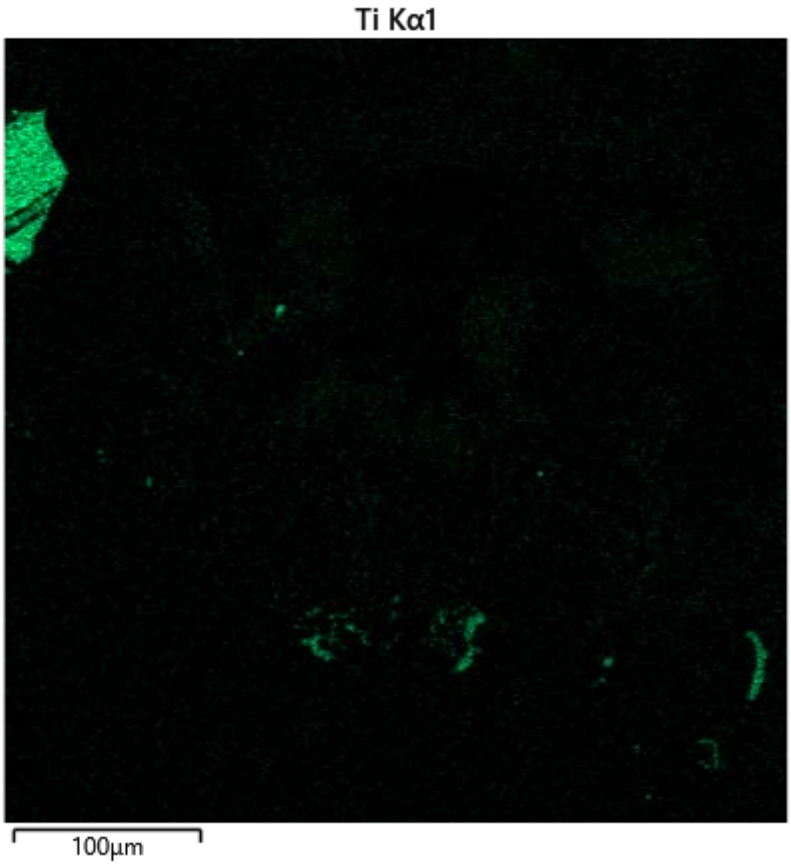

Ca Kα1
100µm
Cr Kα1
100µm

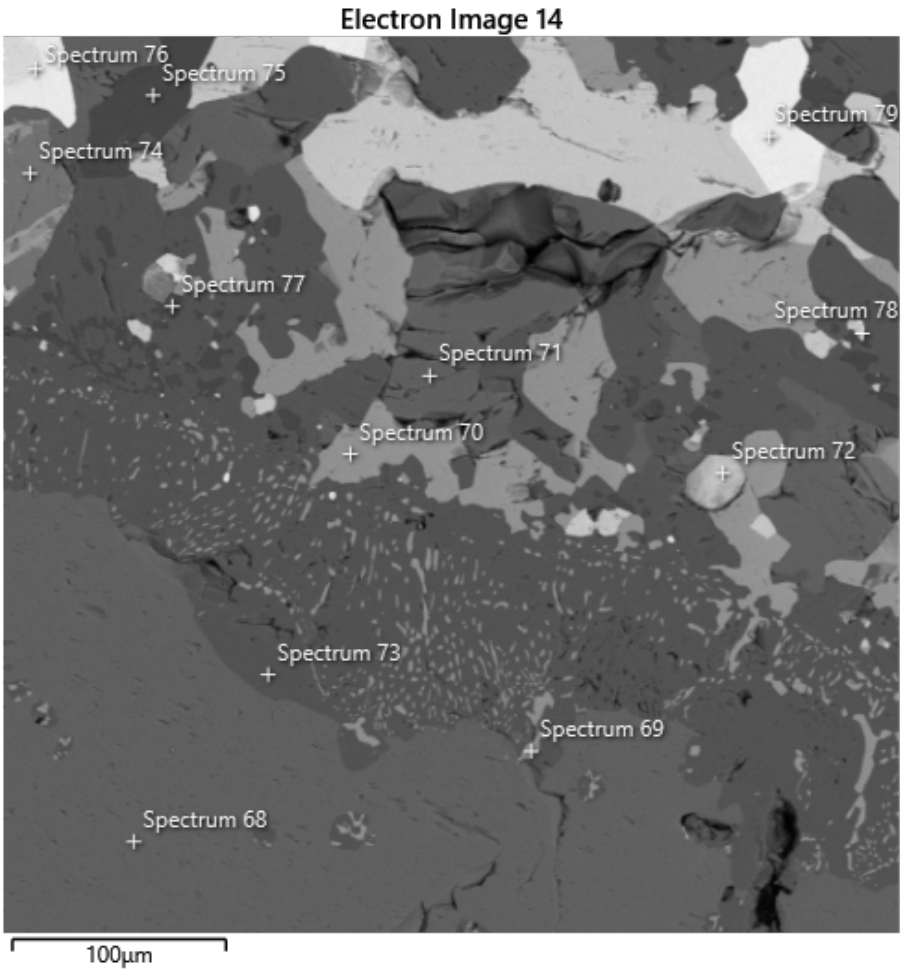

Fe Kα1
100µm
Mg Kα1_2
100µm

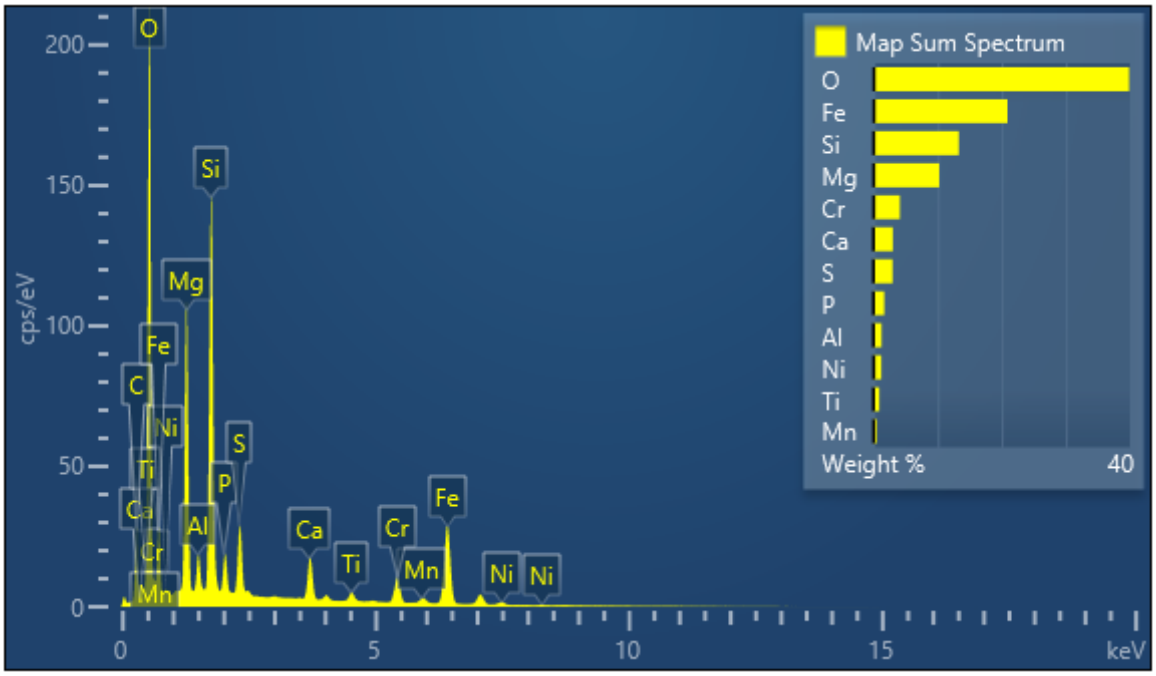

Mn Kα1
100µm
Ni Kα1
100µm

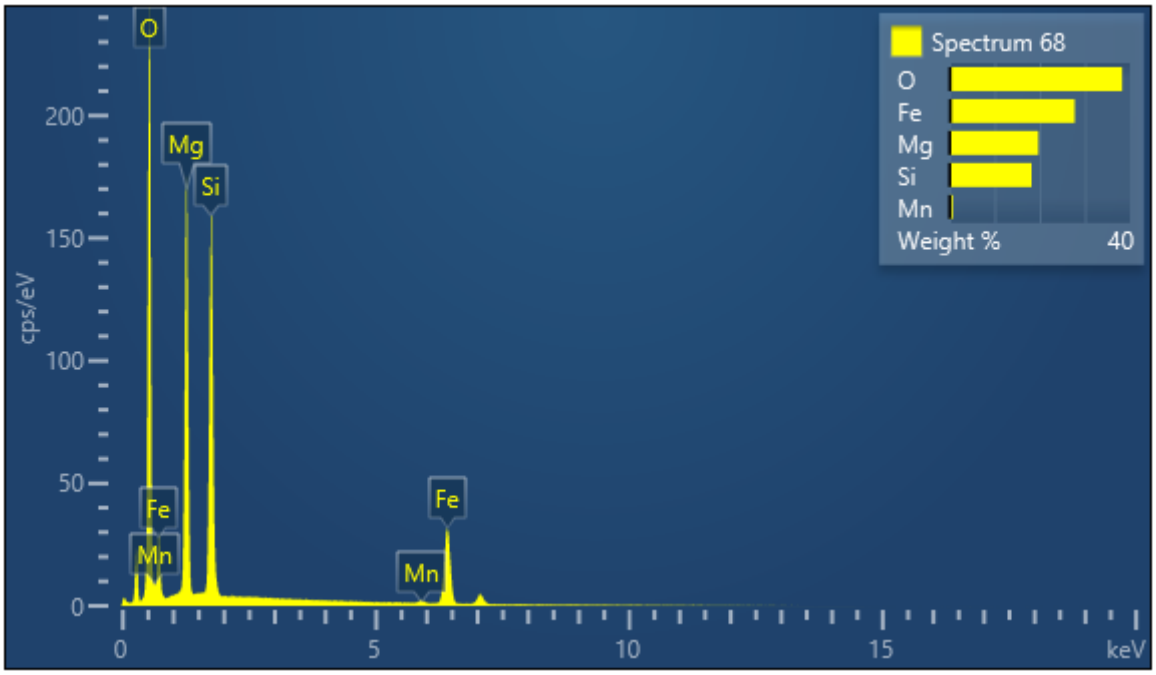

O Kα1
100µm
P Kα1
100µm

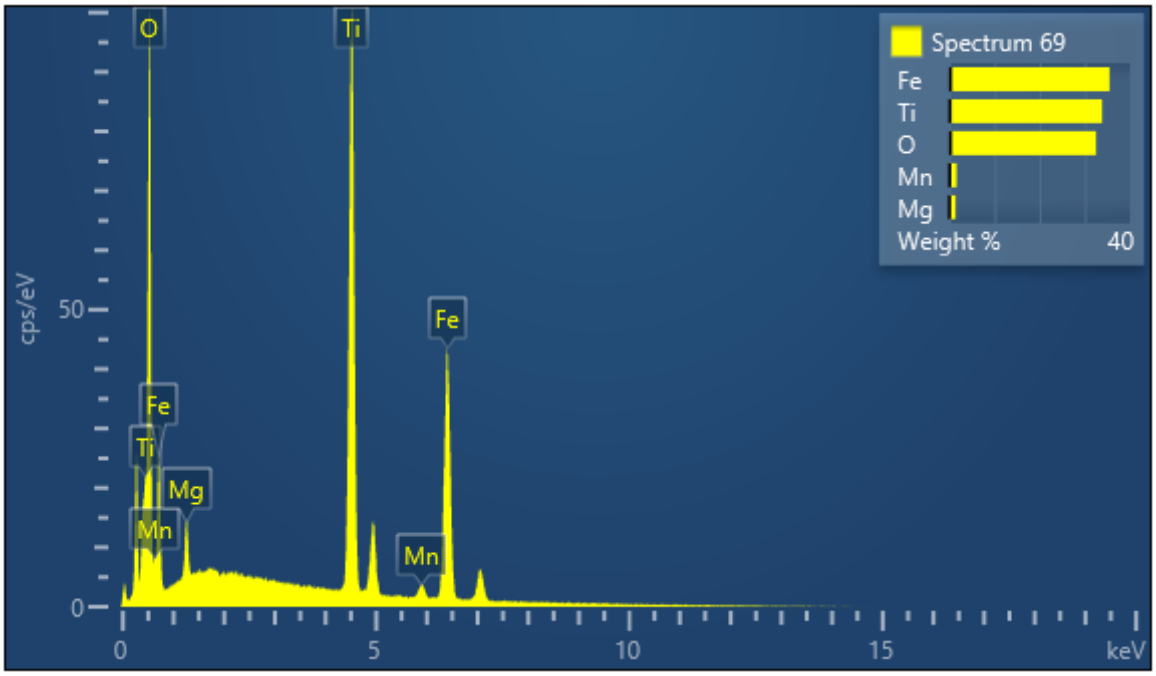

S Kα1
100µm
Si Kα1
100µm

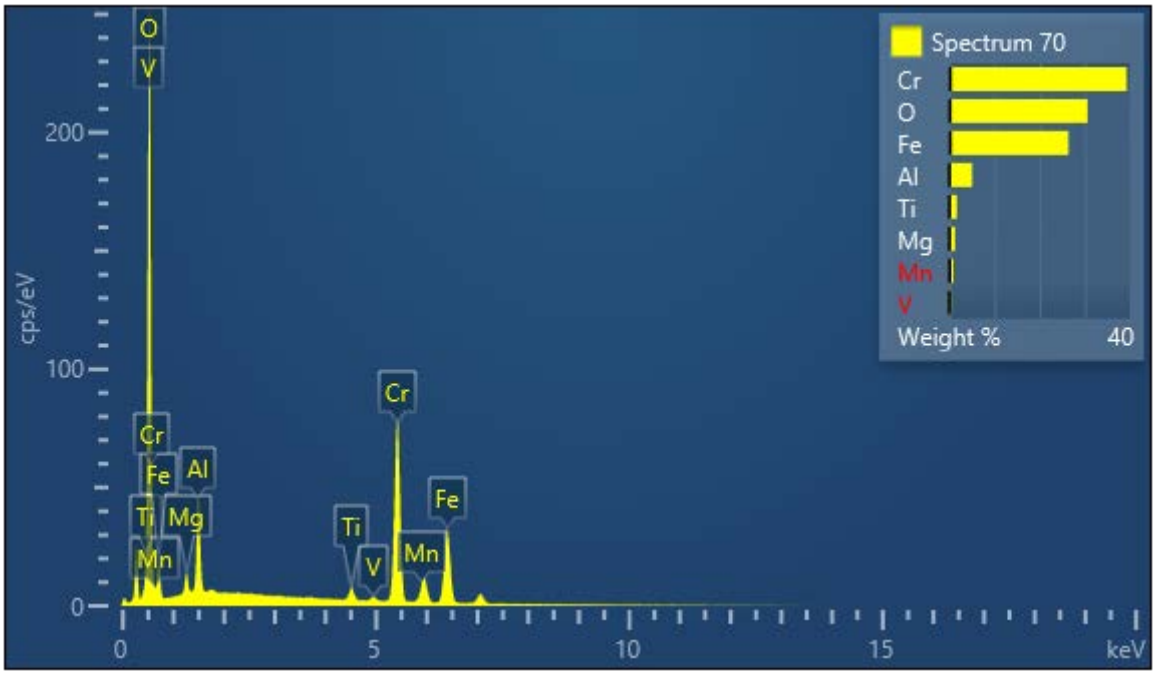

Ti Kα1
100µm

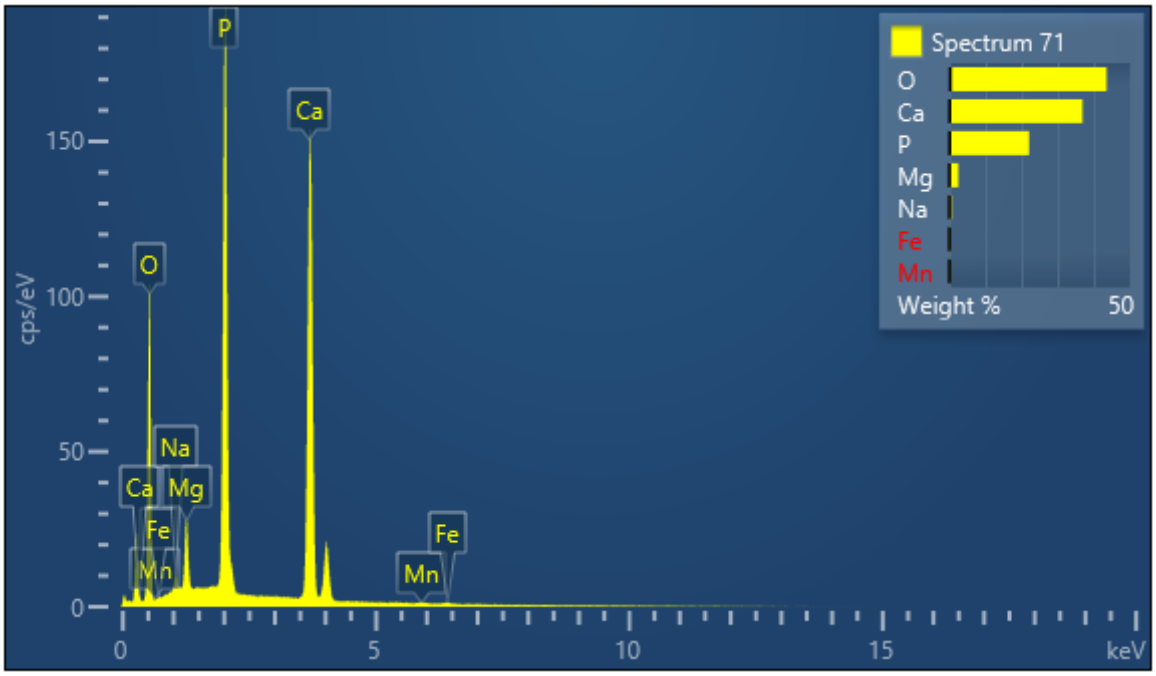

Electron Image 14
Spectrum 76
Spectrum 75
Spectrum 79
Spectrum 74
Spectrum 77
Spectrum 78
Spectrum 71
Spectrum 70
Spectrum 72
Spectrum 73
Spectrum 69
Spectrum 68
100µm

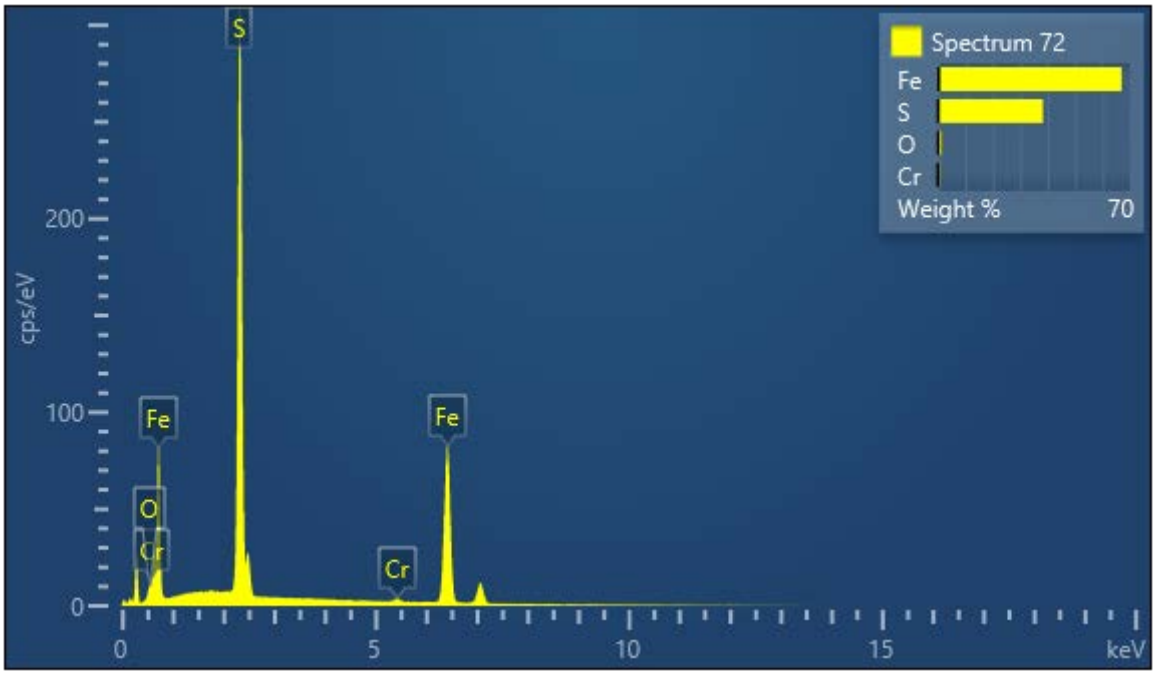

Map Sum Spectrum
O
Fe
Si
Mg
Cr
Ca
S
P
Al
Ni
Ti
Mn
Weight %
40
cps/eV
200
150
100
50
0
0
5
10
15
keV

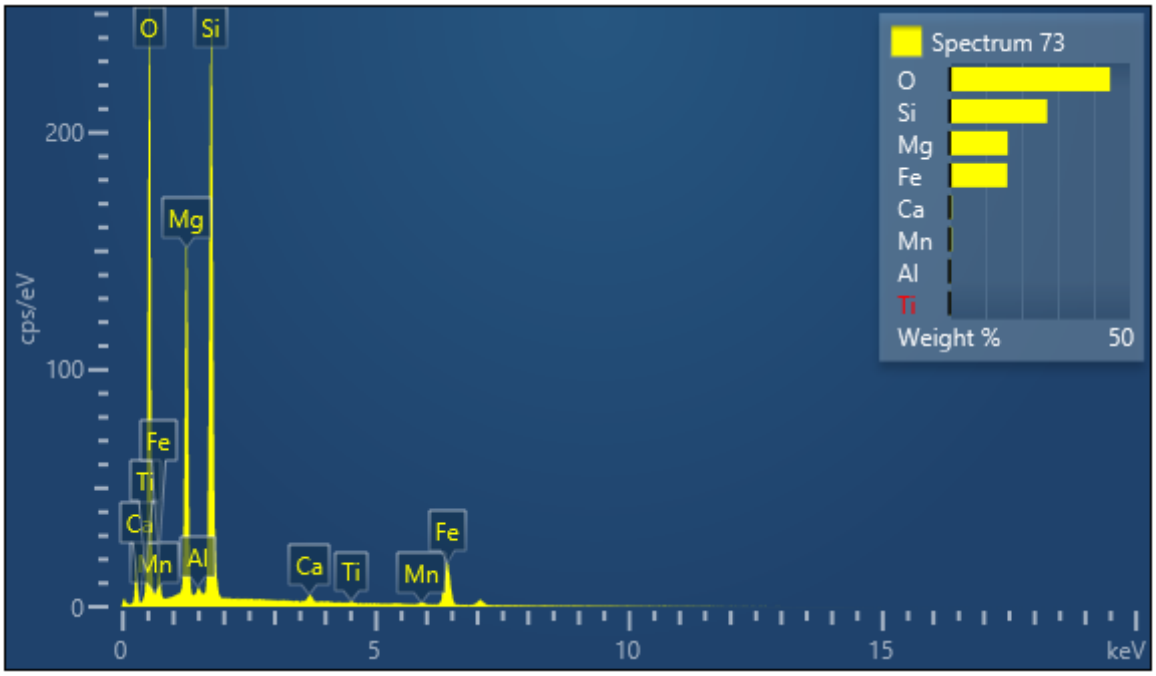

Spectrum 68
O
Fe
Mg
Si
Mn
Weight %
40
O
Mg
Si
Fe
Mn
Fe
Mn
200
150
100
50
0
cps/eV
0
5
10
15
keV

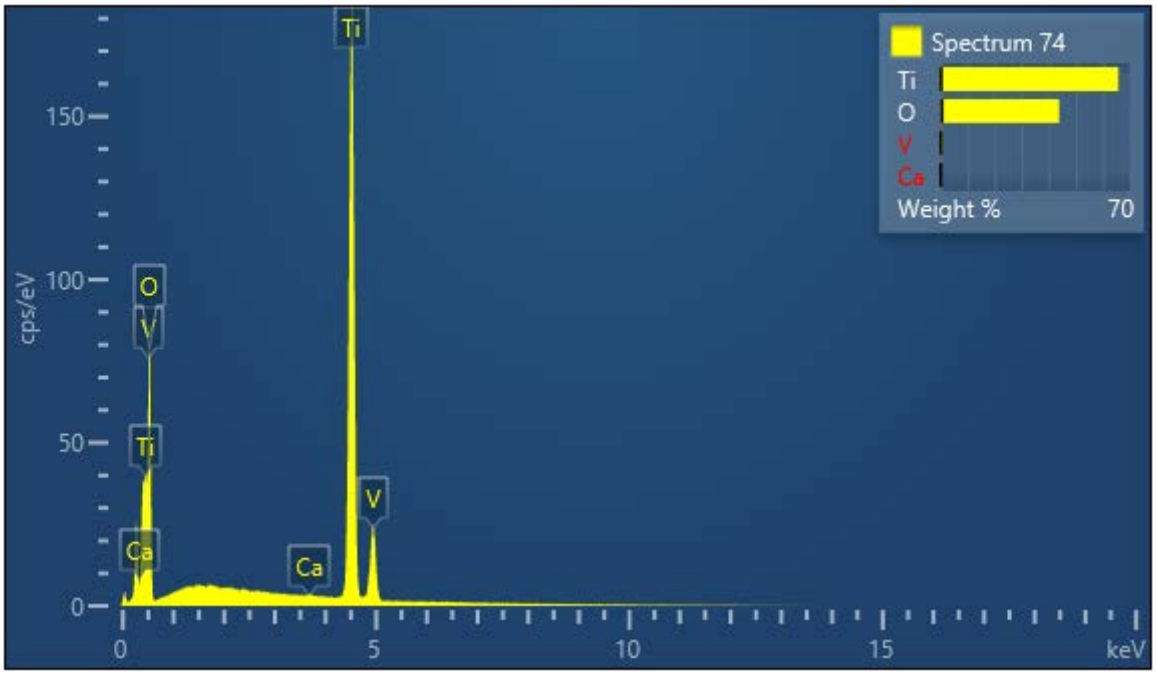

Spectrum 69
Fe
Ti
O
Mn
Mg
Weight %
40
O
Ti
Fe
Fe
Ti
Mg
Mn
Mn
50
0
cps/eV
0
5
10
15
keV

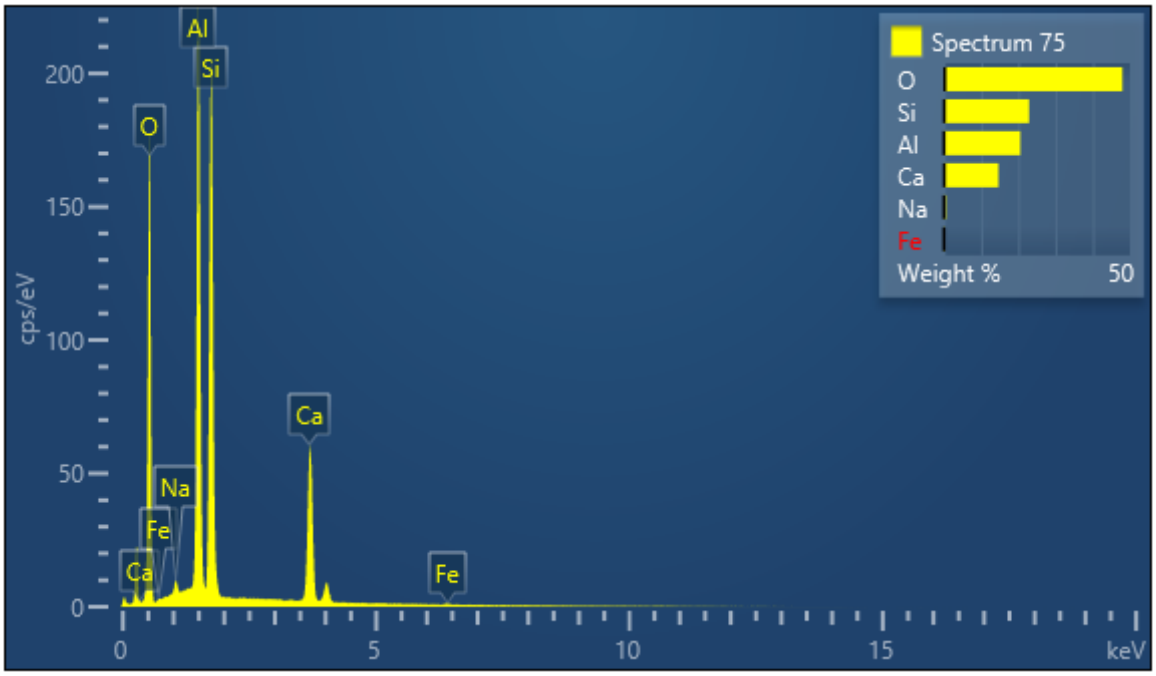

Spectrum 70
Cr
O
Fe
Al
Ti
Mg
Mn
V
Weight %
40
cps/eV
200
100
0
O
V
Cr
Fe
Al
Ti
Mg
Mn
Cr
Ti
V
Mn
Fe
0
5
10
15
keV

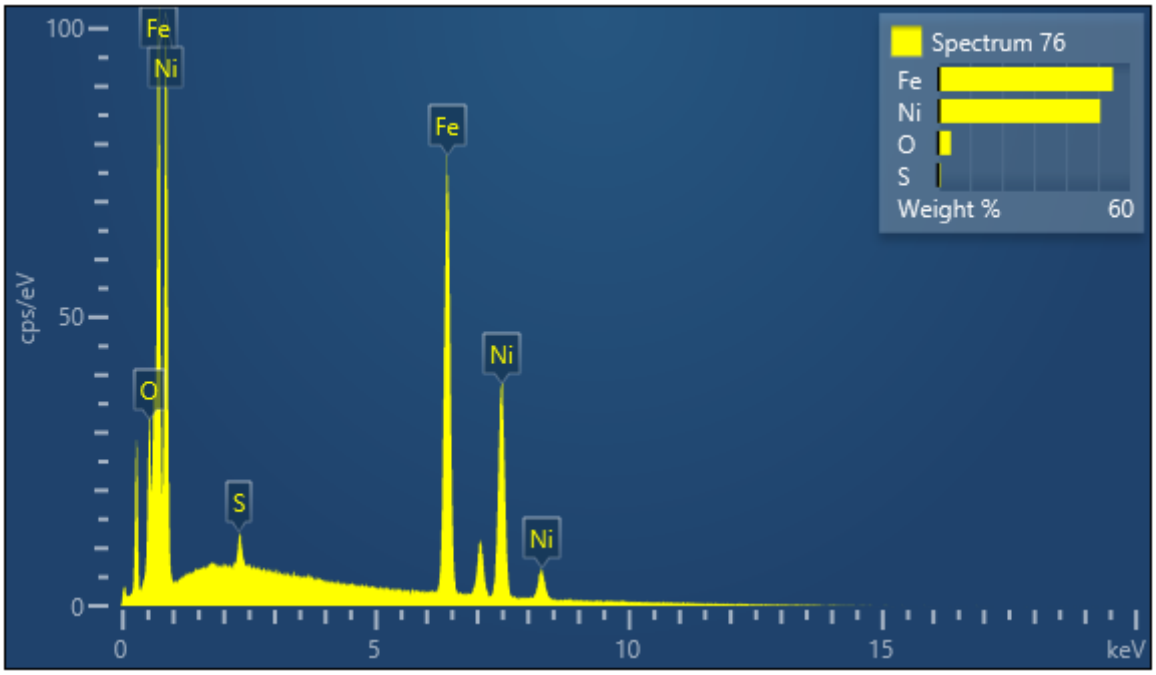

Spectrum 71
O
Ca
P
Mg
Na
Fe
Mn
Weight %
50
cps/eV
150
100
50
0
P
Ca
O
Na
Ca
Mg
Fe
Mn
Fe
Mn
0
5
10
15
keV

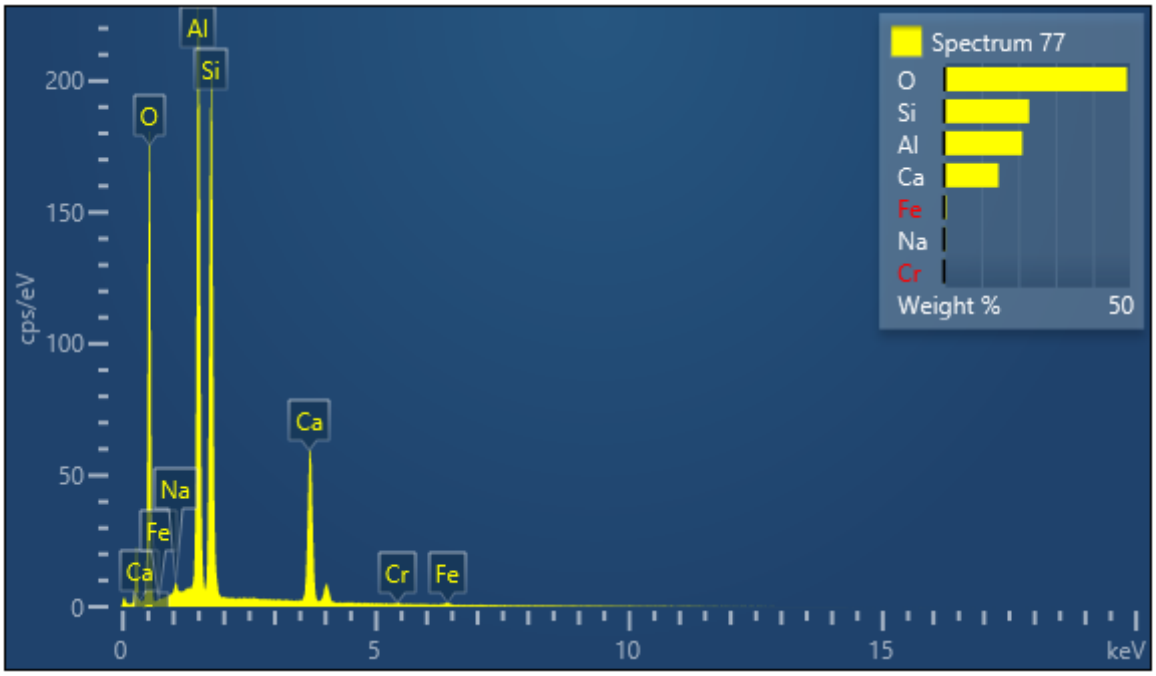

Spectrum 72
Fe
S
O
Cr
Weight %
70
S
Fe
O
Cr
Cr
Fe
200
100
0
cps/eV
0
5
10
15
keV

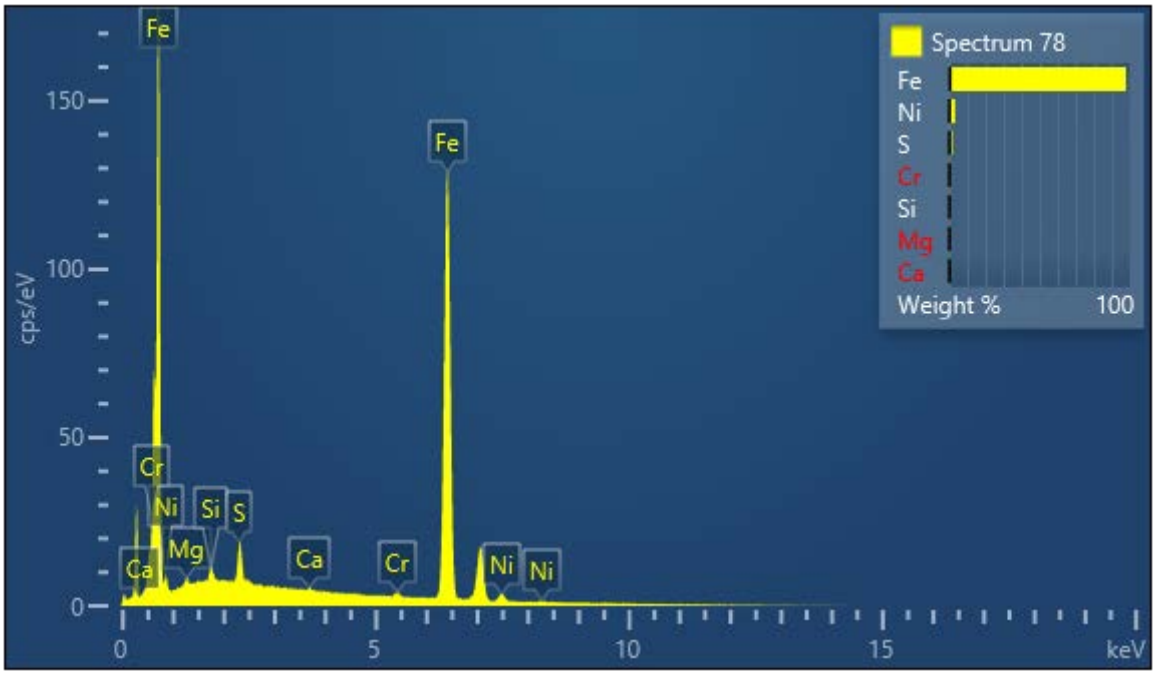

Spectrum 73
O
Si
Mg
Fe
Ca
Mn
Al
Ti
Weight %
50
O
Si
Mg
Fe
Ti
Ca
Mn
Al
Ca
Ti
Fe
Mn
200
100
0
cps/eV
0
5
10
15
keV

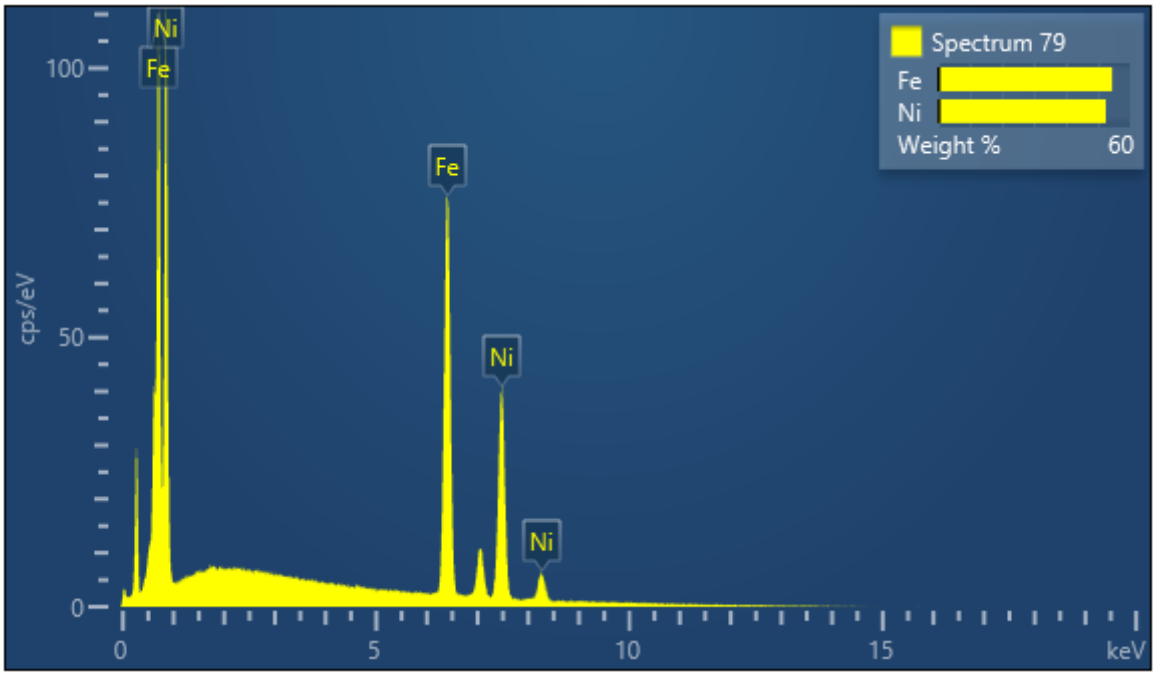

Spectrum 74
Ti
O
V
Ca
Weight %
70
cps/eV
150
100
50
0
O
V
Ti
Ca
Ca
Ti
V
0
5
10
15
keV


Spectrum 75
O
Si
Al
Ca
Na
Fe
Weight %
50
cps/eV
200
150
100
50
0
Al
Si
O
Ca
Na
Fe
Ca
Fe
0
5
10
15
keV

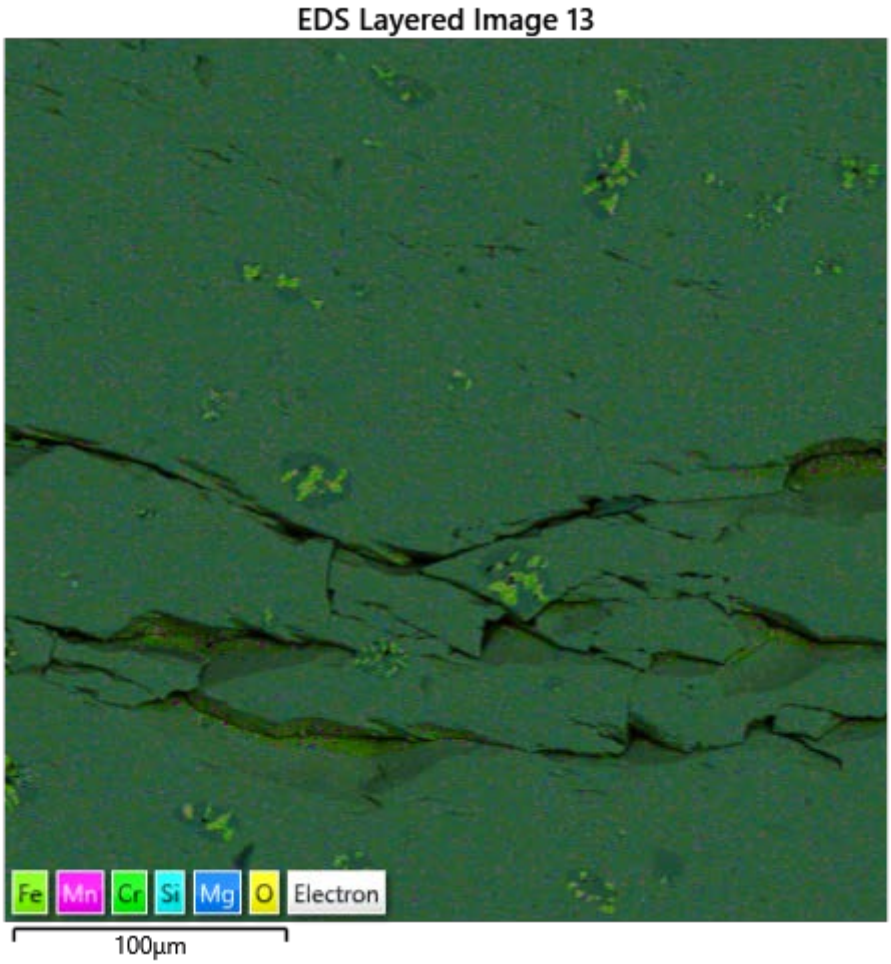

Spectrum 76
Fe
Ni
O
S
Weight %
60
cps/eV
100
50
0
Fe
Ni
Fe
O
Ni
S
Ni
0
5
10
15
keV

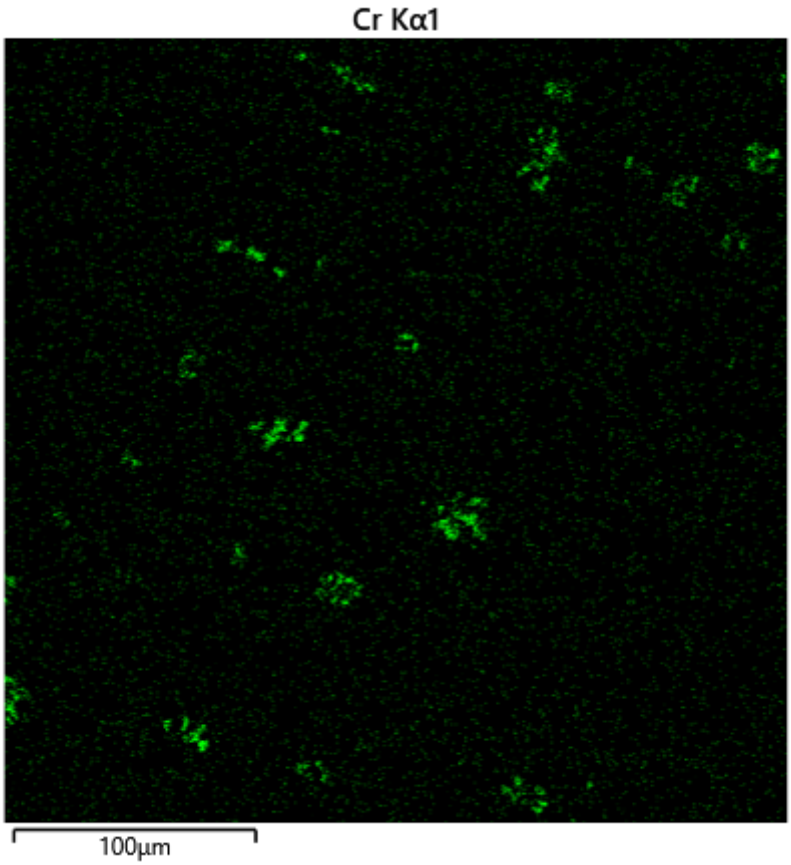

Spectrum 77
O
Si
Al
Ca
Fe
Na
Cr
Weight %
50
cps/eV
200
150
100
50
0
Al
Si
O
Ca
Na
Fe
Ca
Cr
Fe
0
5
10
15
keV

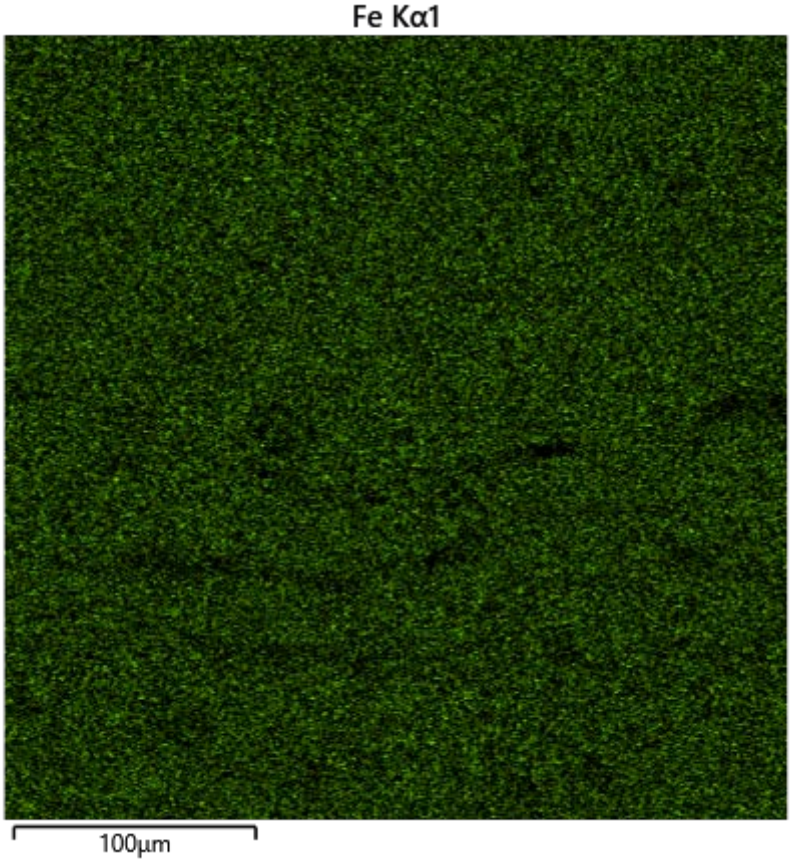

Spectrum 78
Fe
Ni
S
Cr
Si
Mg
Ca
Weight %
100
cps/eV
150
100
50
0
Fe
Fe
Cr
Ni
Si
S
Mg
Ca
Ca
Cr
Ni
Ni
0
5
10
15
keV

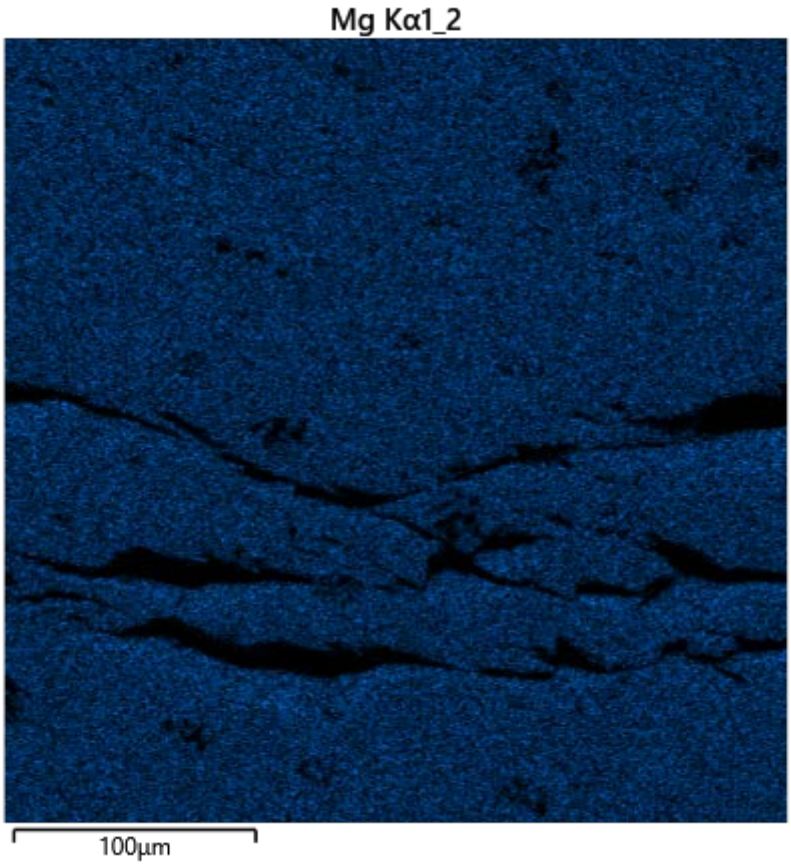

Spectrum 79
Fe
Ni
Weight %
60
cps/eV
100
50
0
Ni
Fe
Fe
Ni
Ni
0
5
10
15
keV

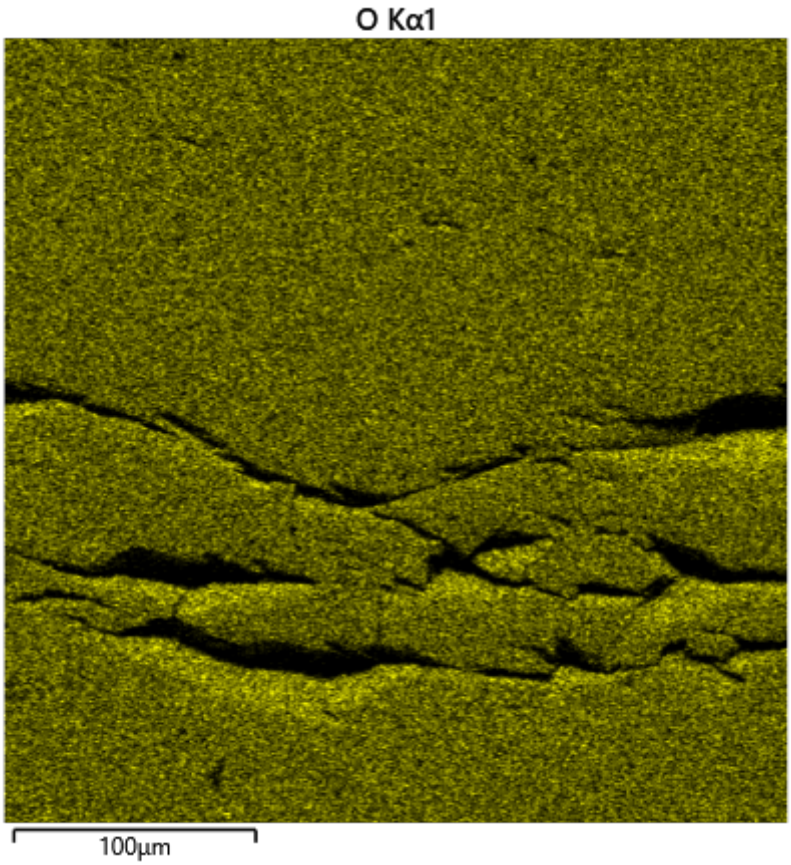
Område 8

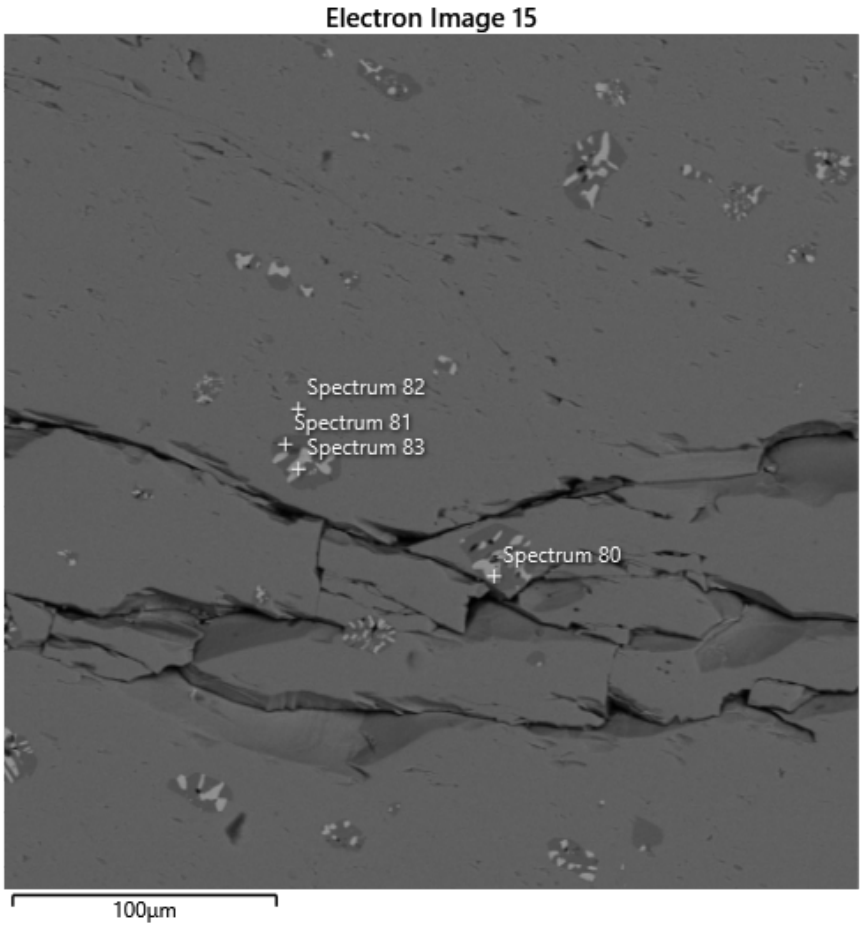


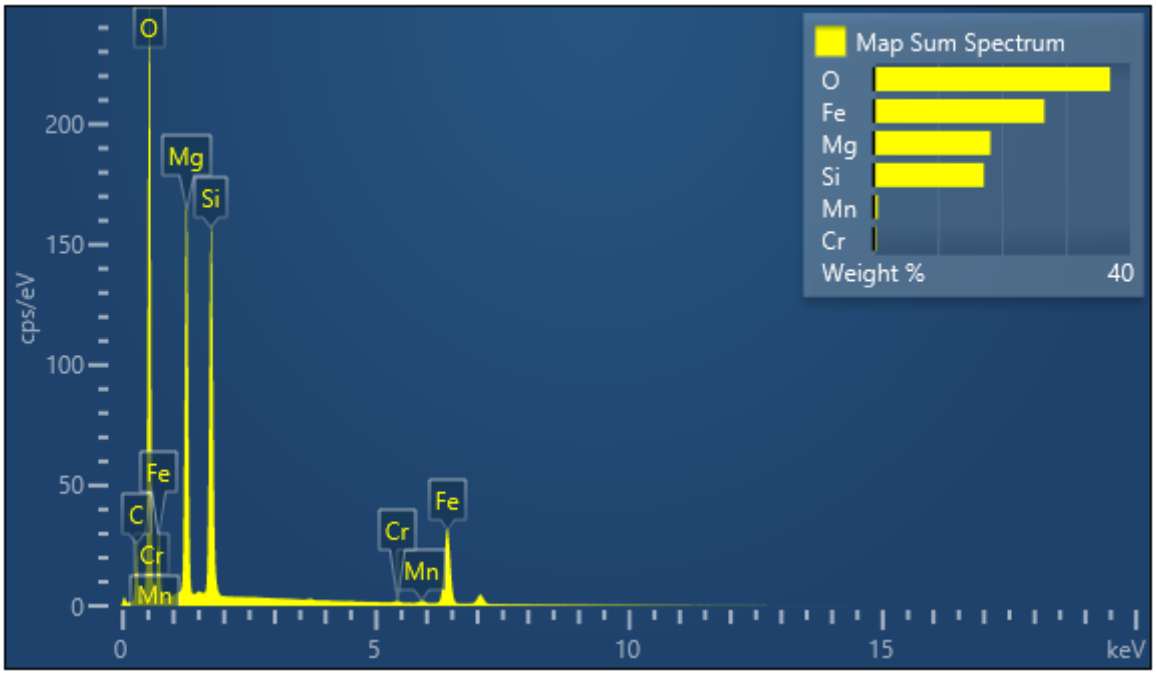

Cr Kα1
100µm

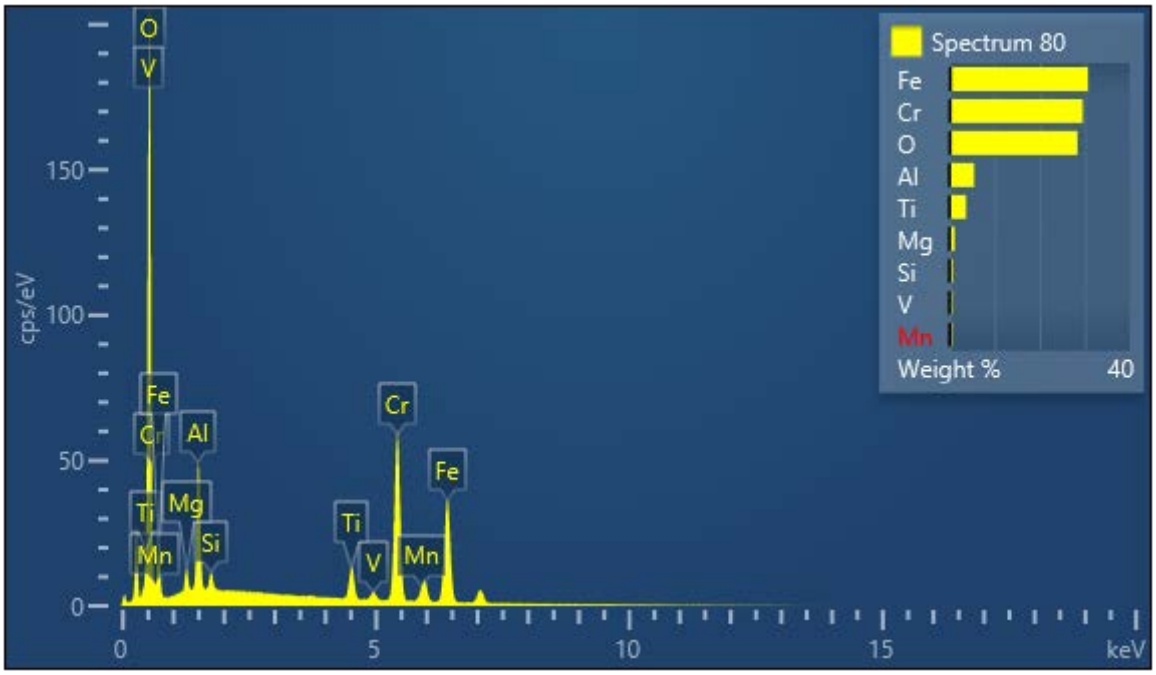

Fe Kα1
100µm

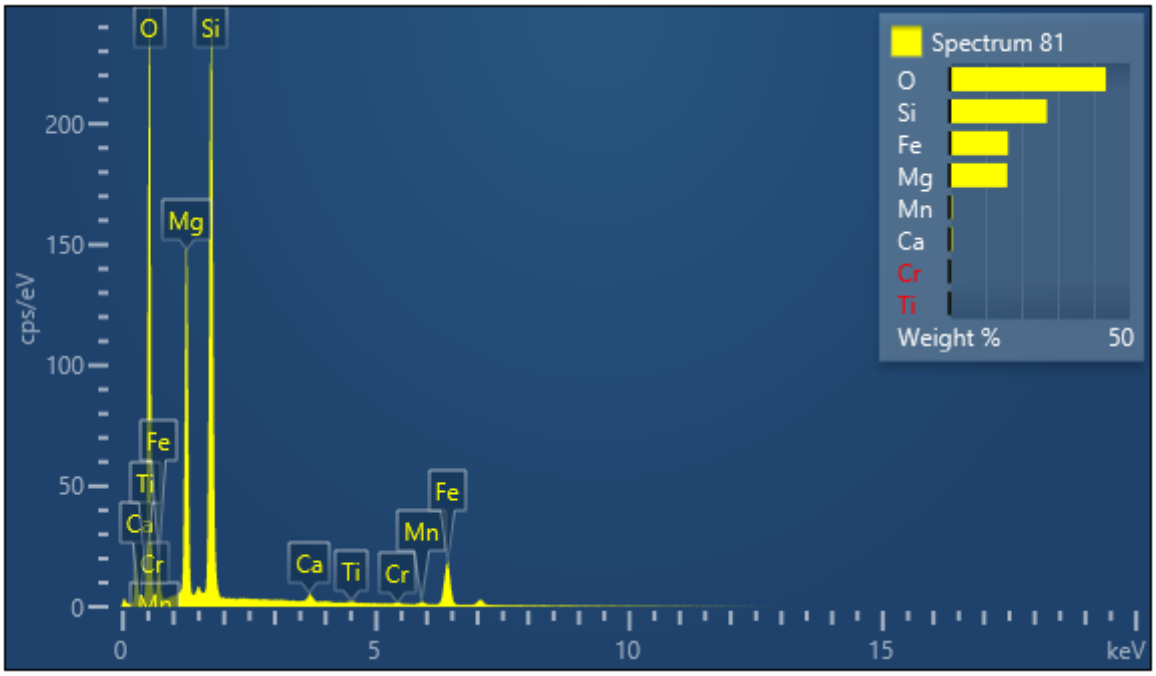

Mg Kα1_2
100µm
Mn Kα1
100µm

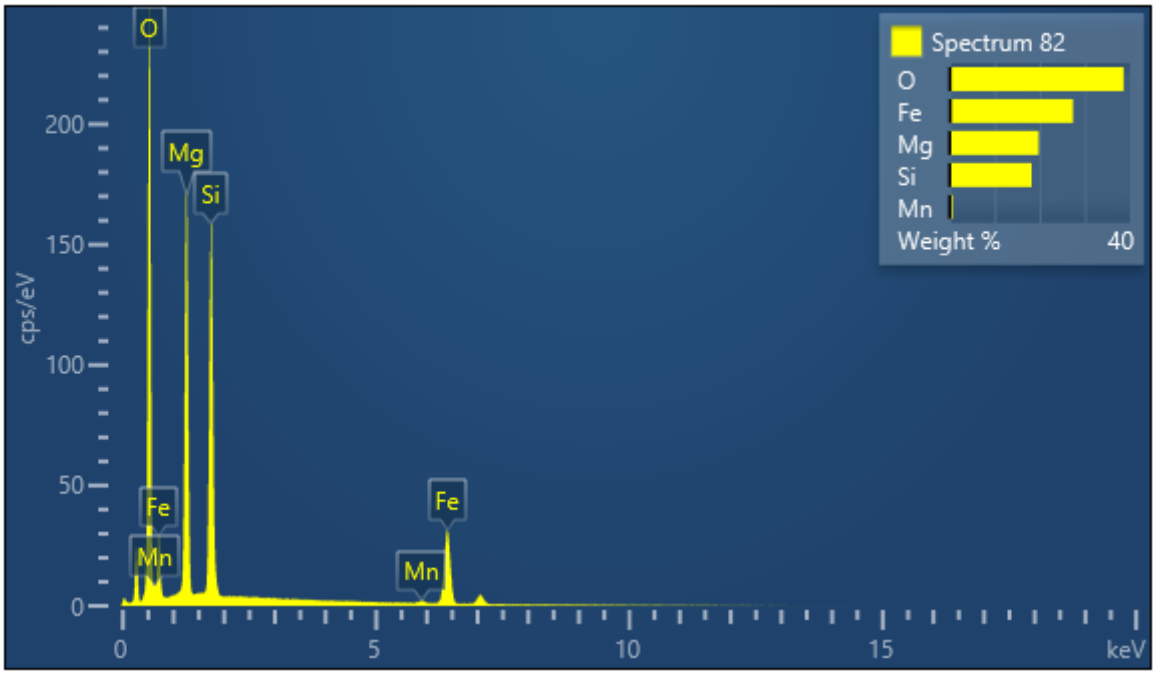

O Kα1
100µm
Si Kα1
100µm

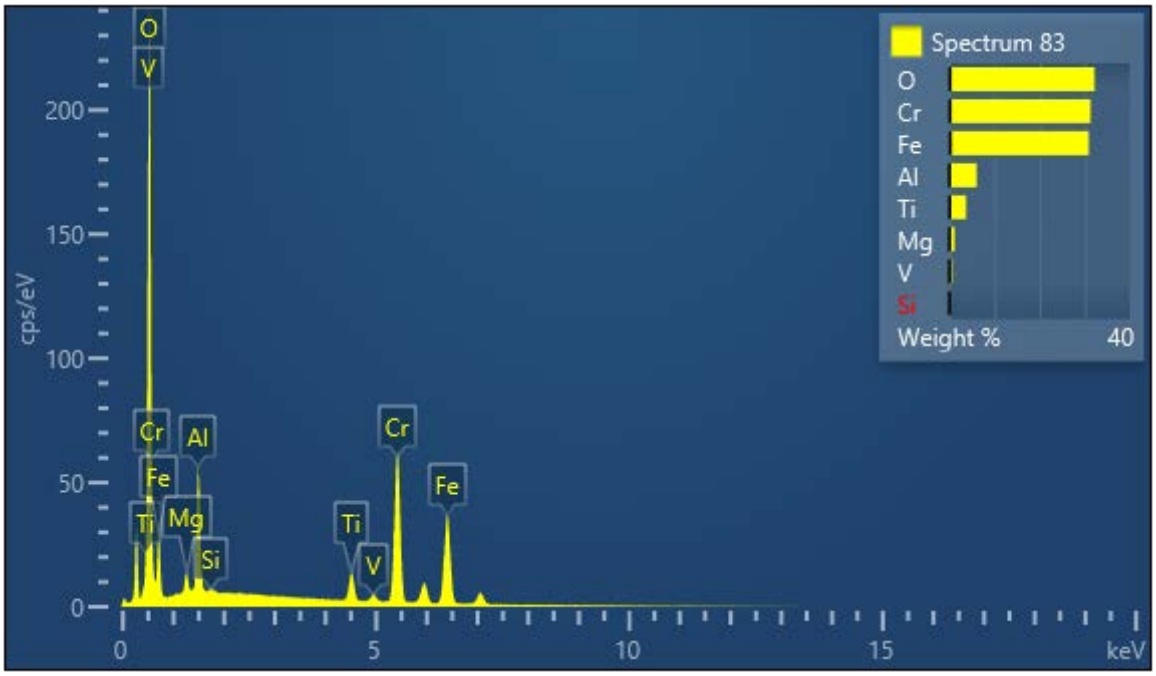

Electron Image 15
Spectrum 82
Spectrum 81
Spectrum 83
Spectrum 80
100µm


Map Sum Spectrum
O
Fe
Mg
Si
Mn
Cr
Weight %
40
cps/eV
200
150
100
50
0
O
Mg
Si
Fe
C
Cr
Mn
Cr
Mn
Fe
0
5
10
15
keV

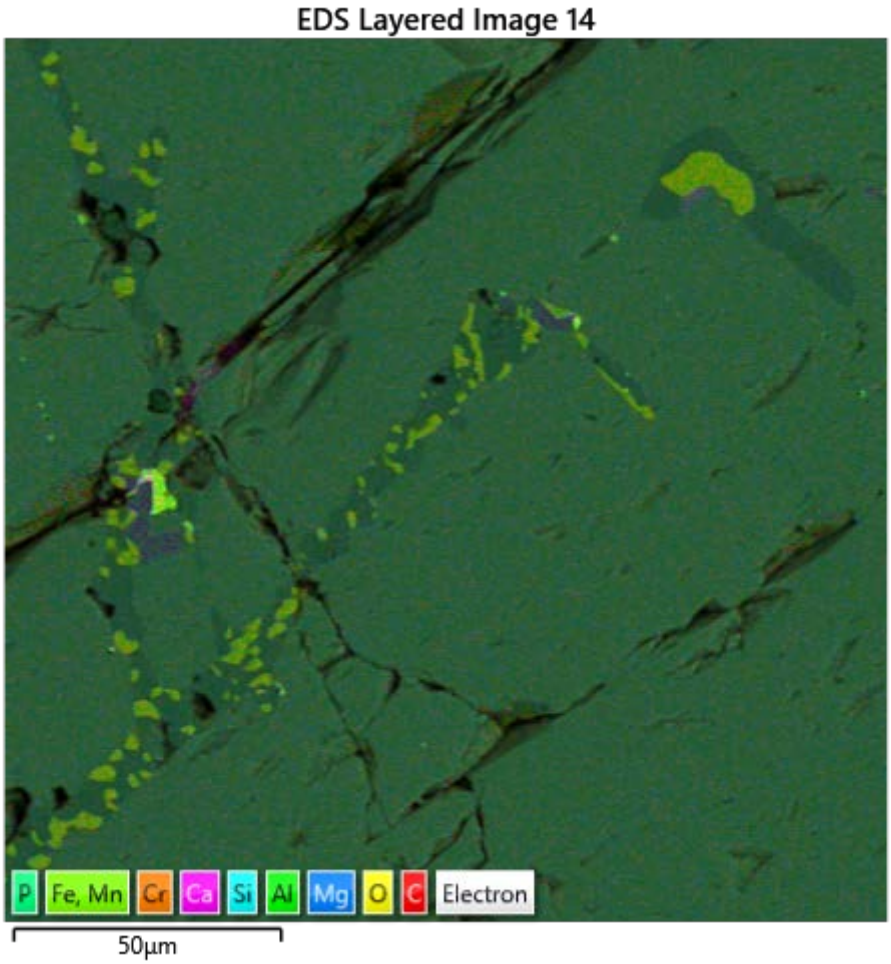

Spectrum 80
Fe
Cr
O
Al
Ti
Mg
Si
V
Mn
Weight %
40
cps/eV
150
100
50
0
0
5
10
15
keV
O
V
Fe
Cr
Al
Mg
Ti
Mn
Si
Cr
Ti
V
Mn
Fe


Spectrum 81
O
Si
Fe
Mg
Mn
Ca
Cr
Ti
Weight %
50
cps/eV
200
150
100
50
0
0
5
10
15
keV
O
Si
Mg
Fe
Ti
Ca
Cr
Ca
Ti
Cr
Mn
Fe

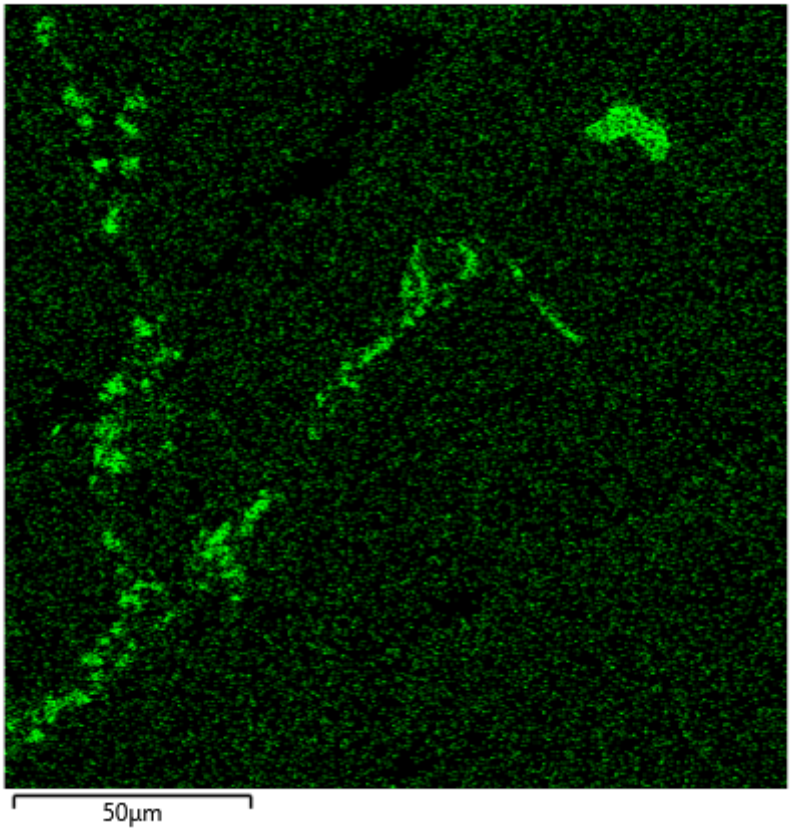

Spectrum 82
O
Fe
Mg
Si
Mn
Weight %
40
cps/eV
200
150
100
50
0
O
Mg
Si
Fe
Mn
Fe
Mn
0
5
10
15
keV


Spectrum 83
O
Cr
Fe
Al
Ti
Mg
V
Si
Weight %
40
cps/eV
200
150
100
50
0
O
V
Cr
Al
Fe
Ti
Mg
Si
Cr
Ti
V
Fe
0
5
10
15
keV

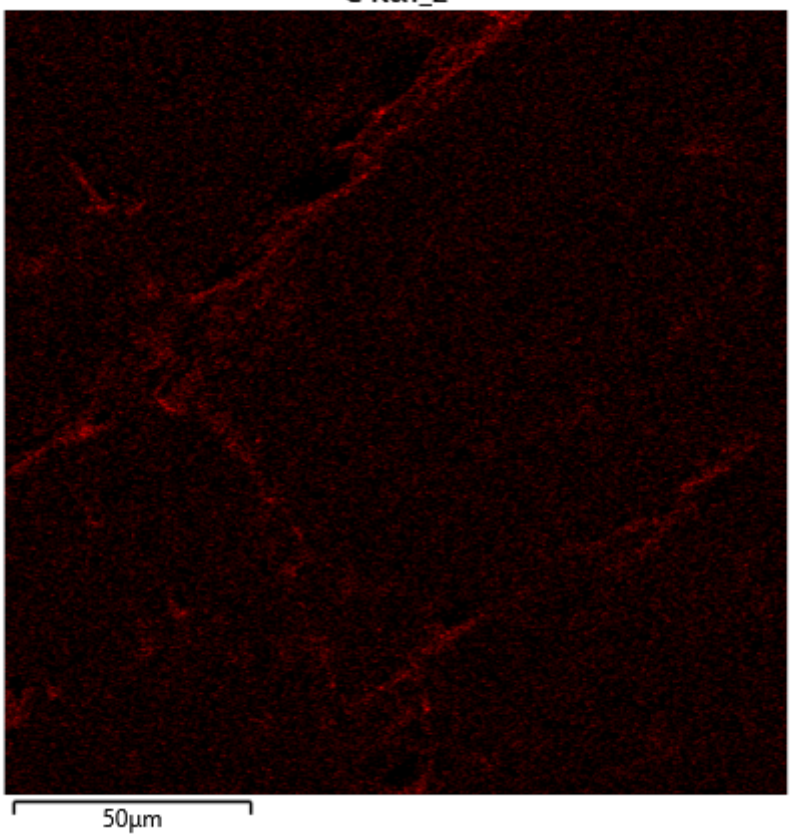
Område 9

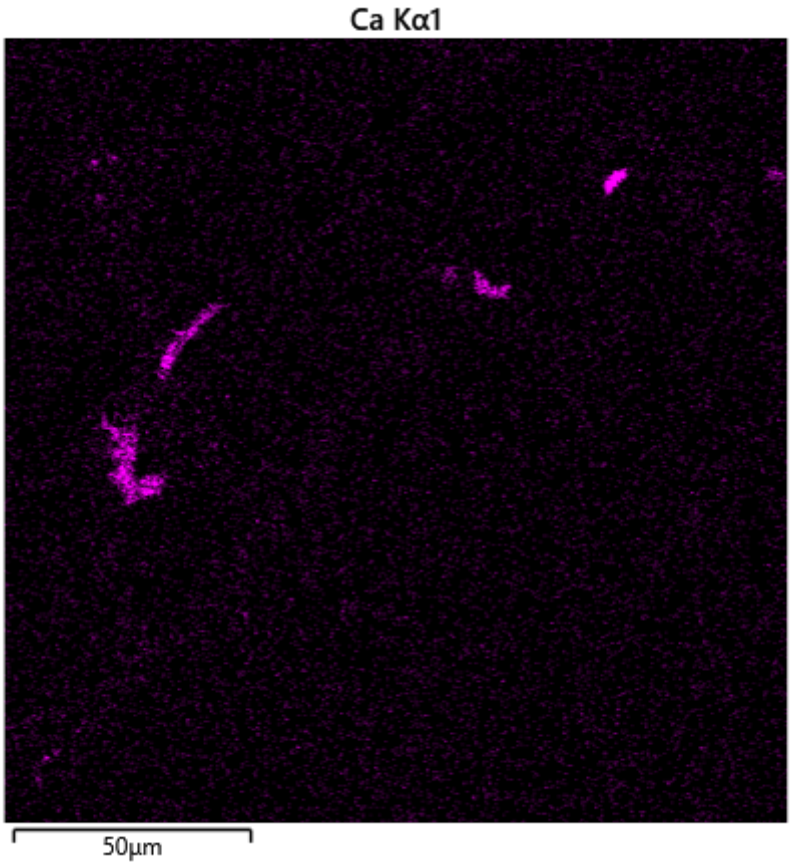


Al Kα1

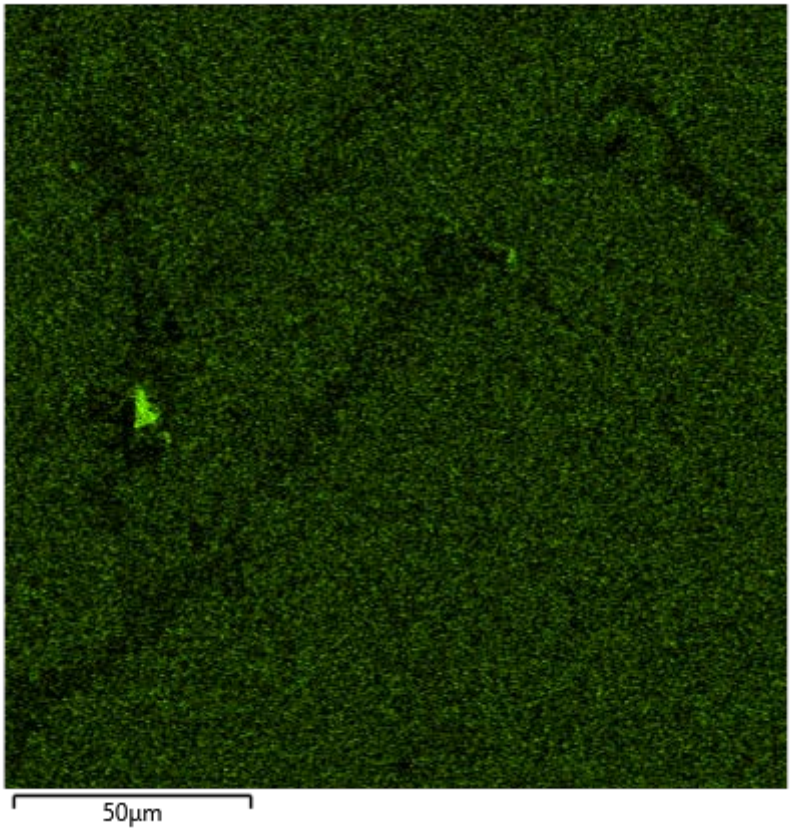


C Kα1_2

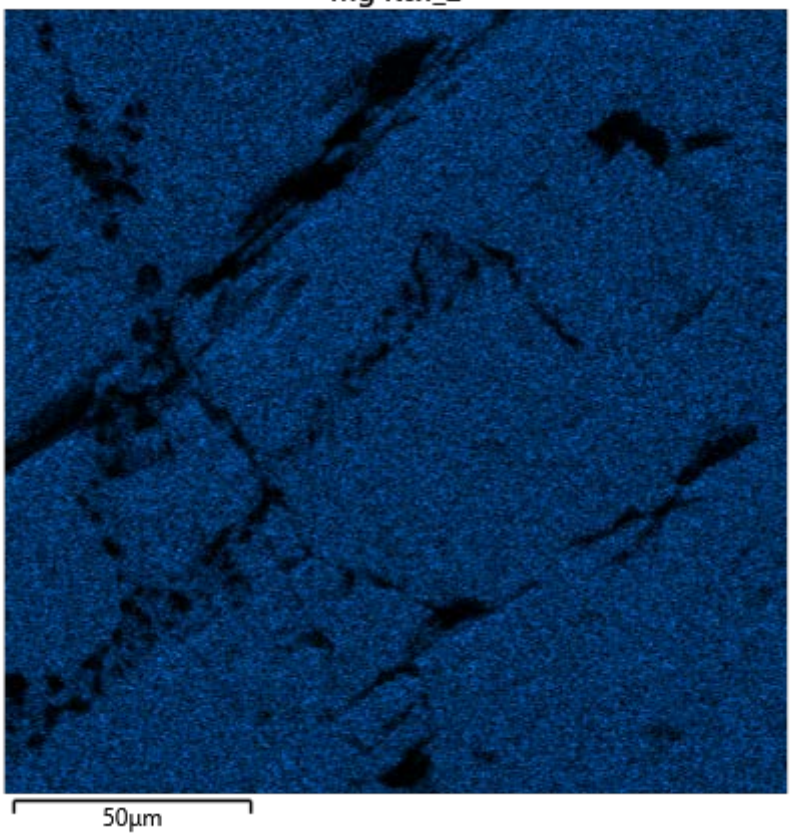


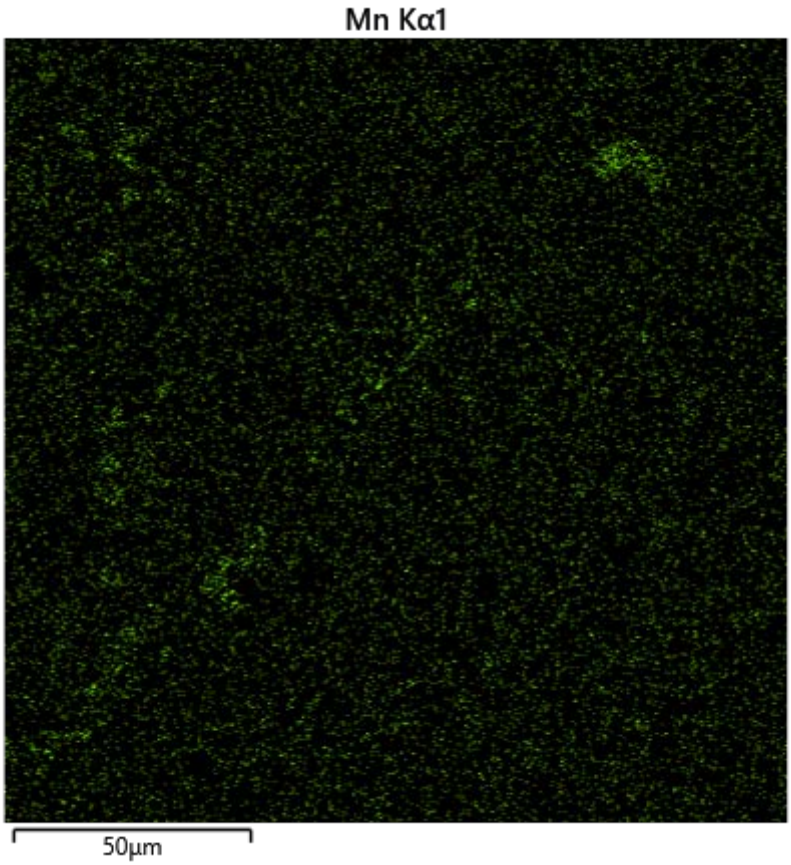

Ca Kα1
50µm
Cr Kα1
50µm

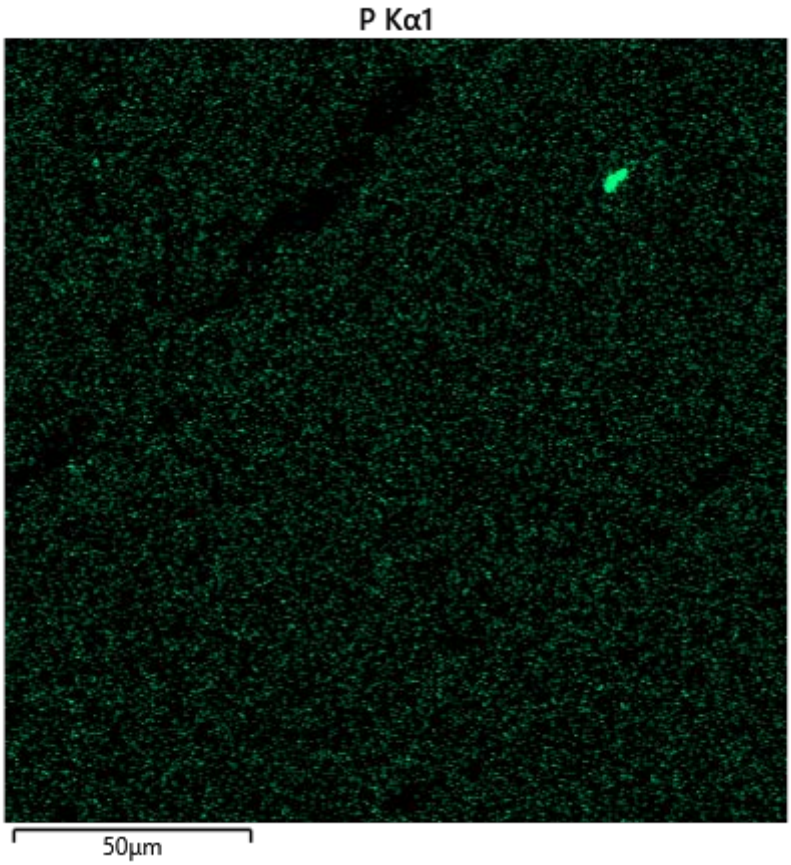
Fe Kα1



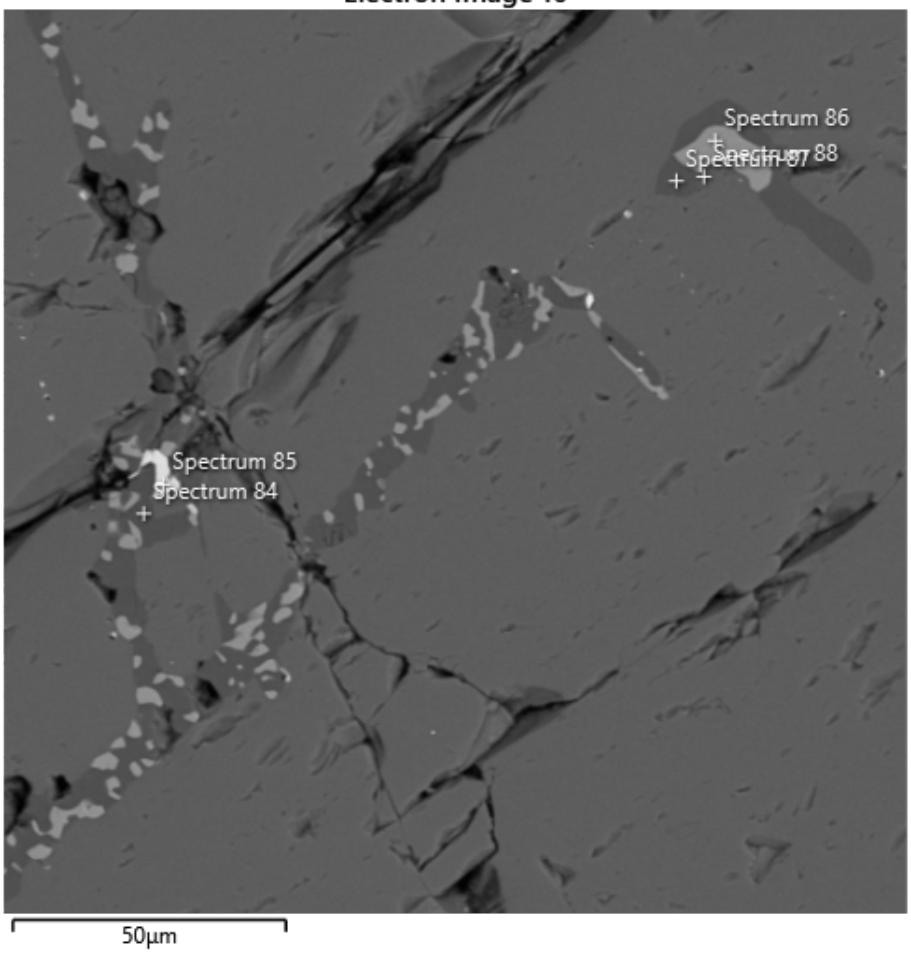
Mg Kα1_2

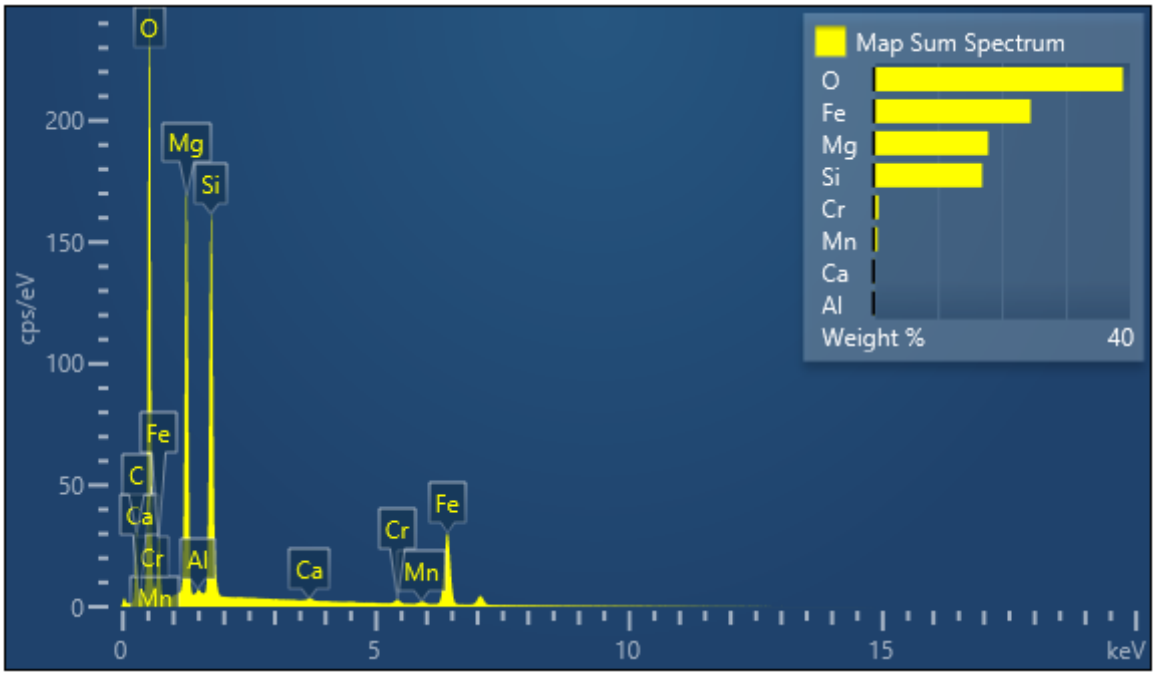


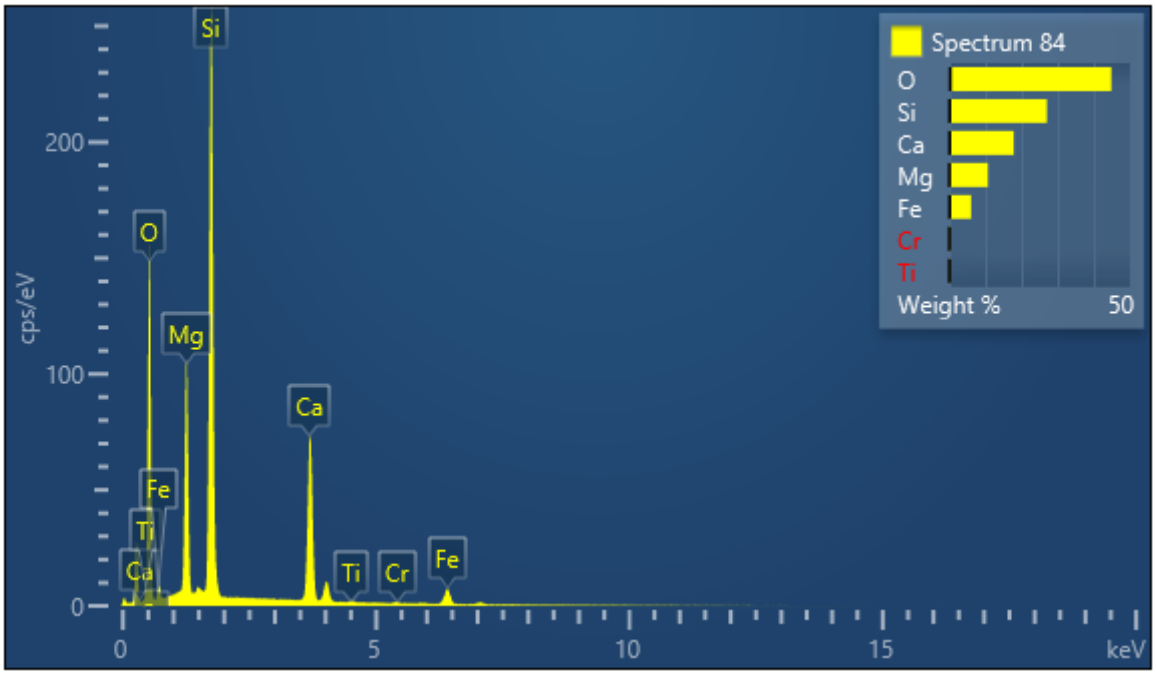

Mn Kα1
50µm
O Kα1
50µm

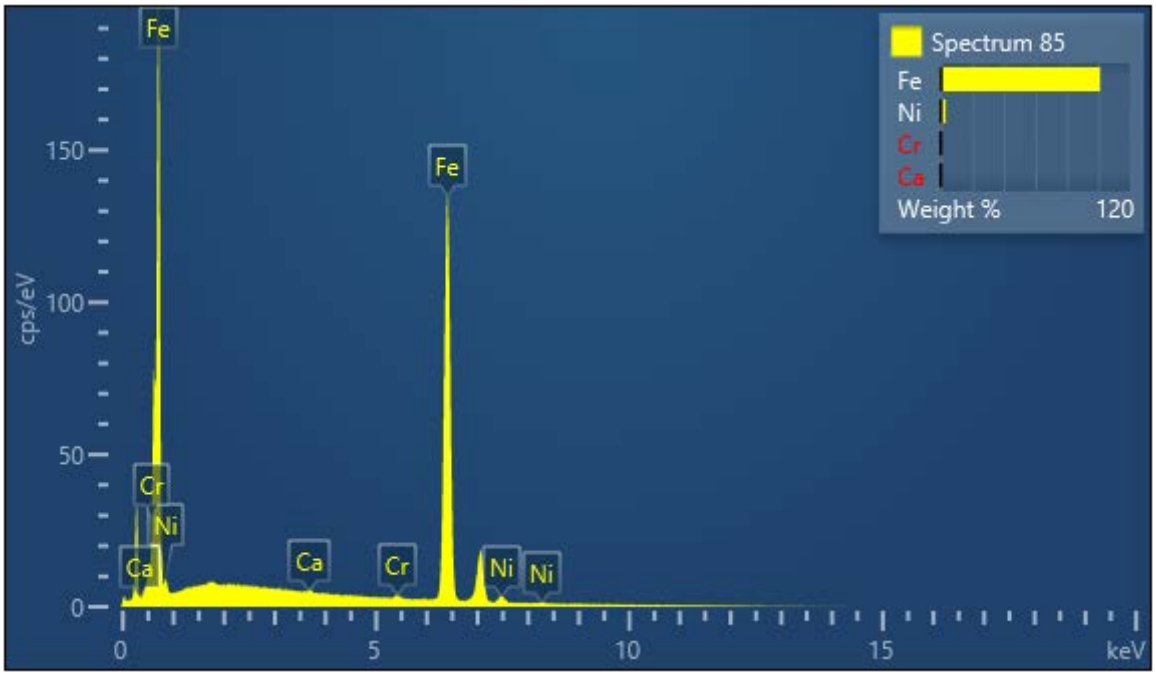

P Kα1
50µm
Si Kα1
50µm

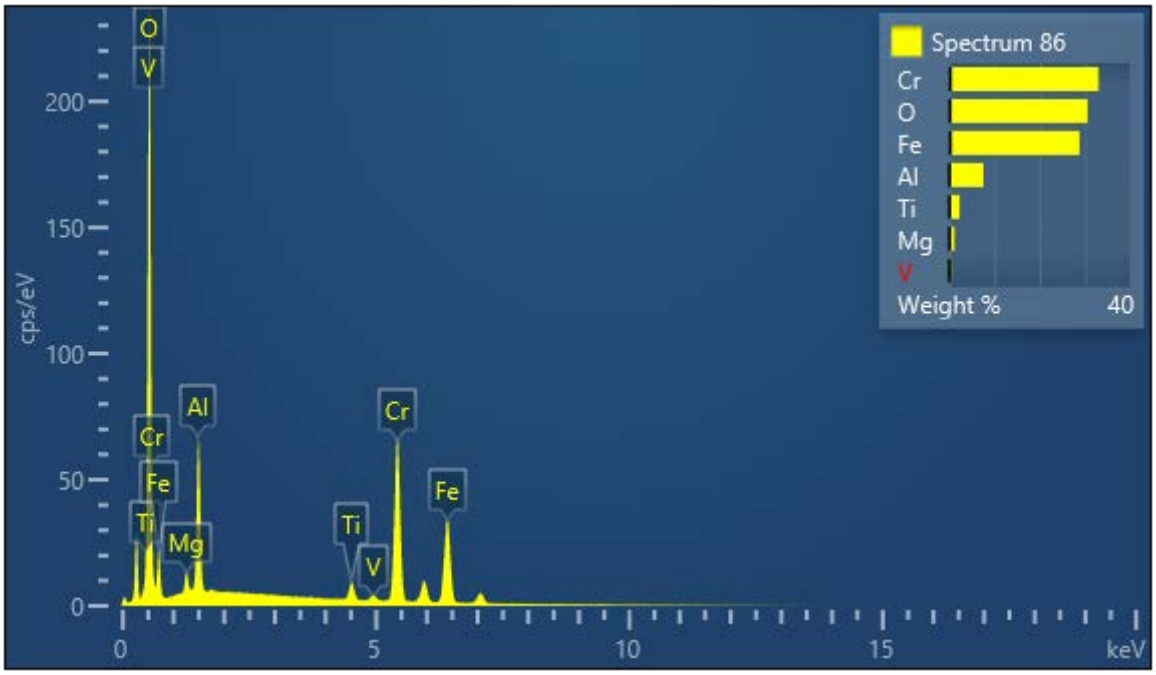
Electron Image 16

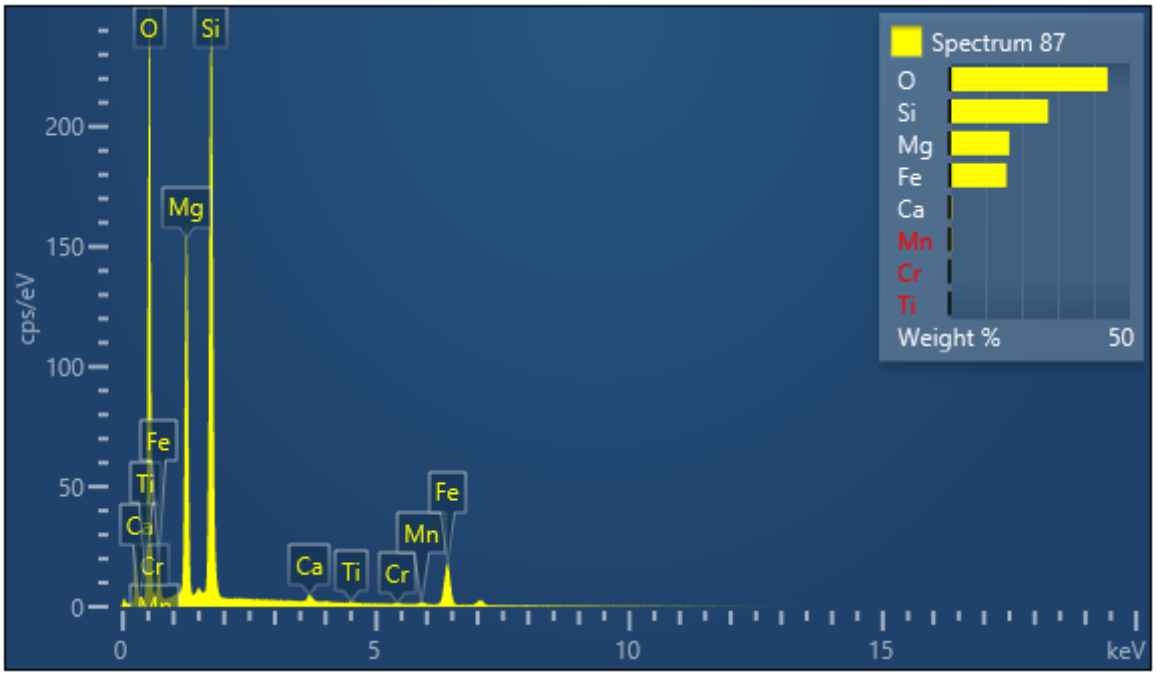


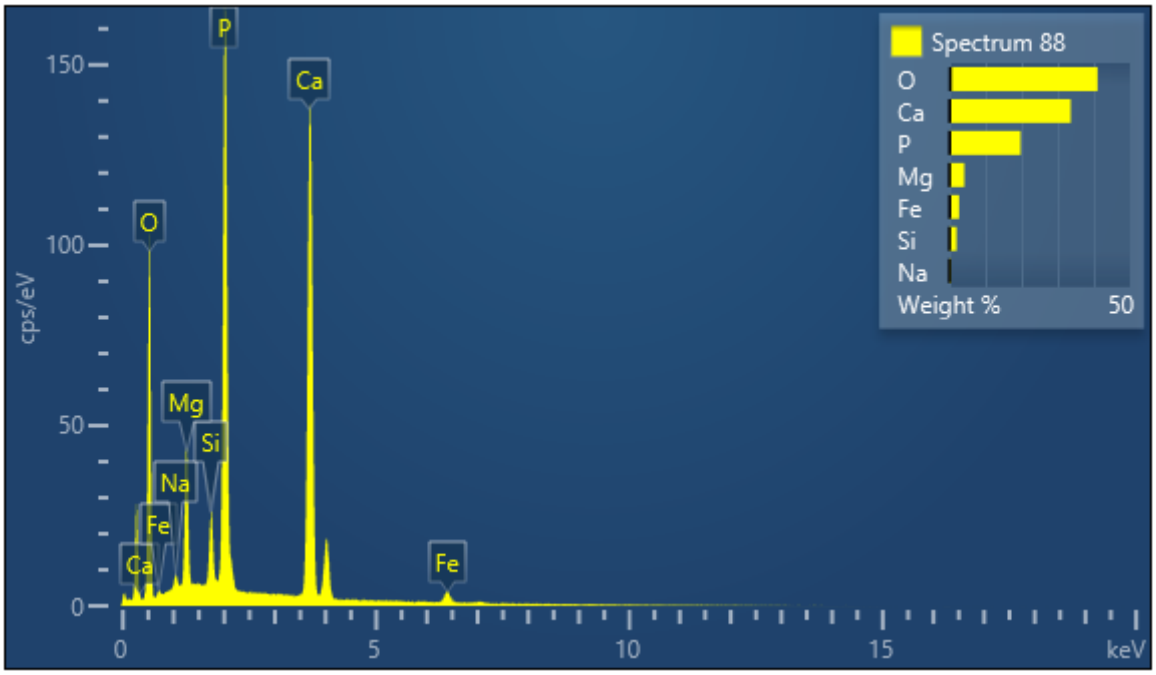



Spectrum 84
O
Si
Ca
Mg
Fe
Cr
Ti
Weight %
50
cps/eV
200
100
0
Si
O
Mg
Ca
Fe
Ti
Ca
Ti
Cr
Fe
0
5
10
15
keV

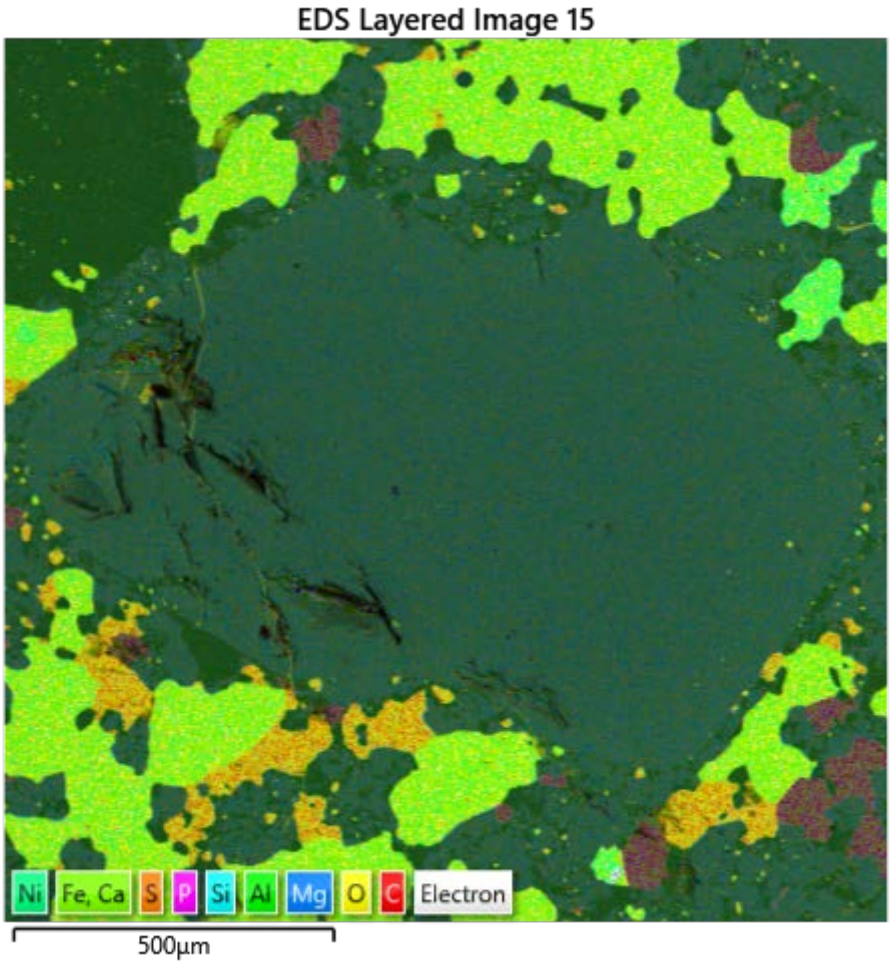

Spectrum 85
Fe
Ni
Cr
Ca
Weight %
120
cps/eV
150
100
50
0
Fe
Fe
Cr
Ni
Ca
Ca
Cr
Ni
Ni
0
5
10
15
keV

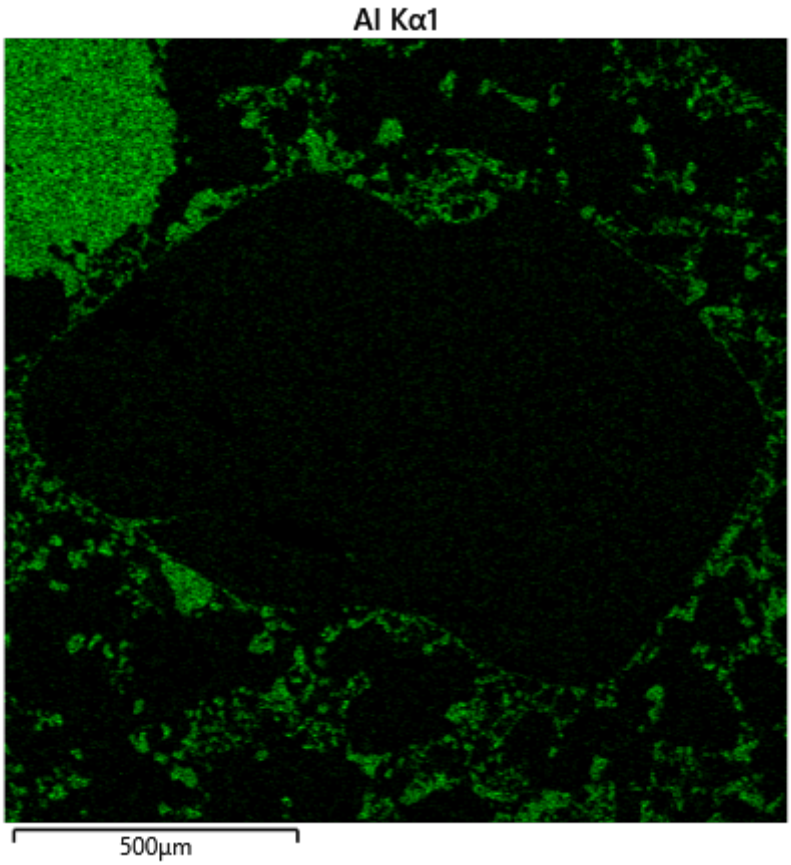

Spectrum 86
Cr
O
Fe
Al
Ti
Mg
V
Weight %
40
cps/eV
200
150
100
50
0
O
V
Al
Cr
Fe
Ti
Mg
Ti
V
Cr
Fe
0
5
10
15
keV

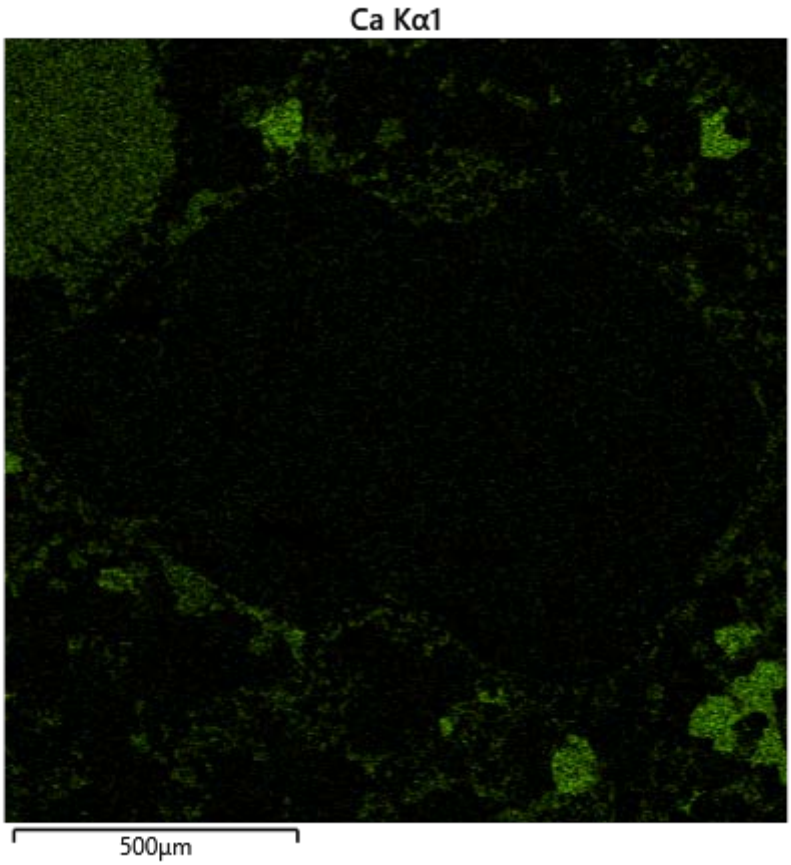

Spectrum 87
O
Si
Mg
Fe
Ca
Mn
Cr
Ti
Weight %
50
cps/eV
200
150
100
50
0
O
Si
Mg
Fe
Ti
Ca
Cr
Ca
Ti
Cr
Mn
Fe
0
5
10
15
keV

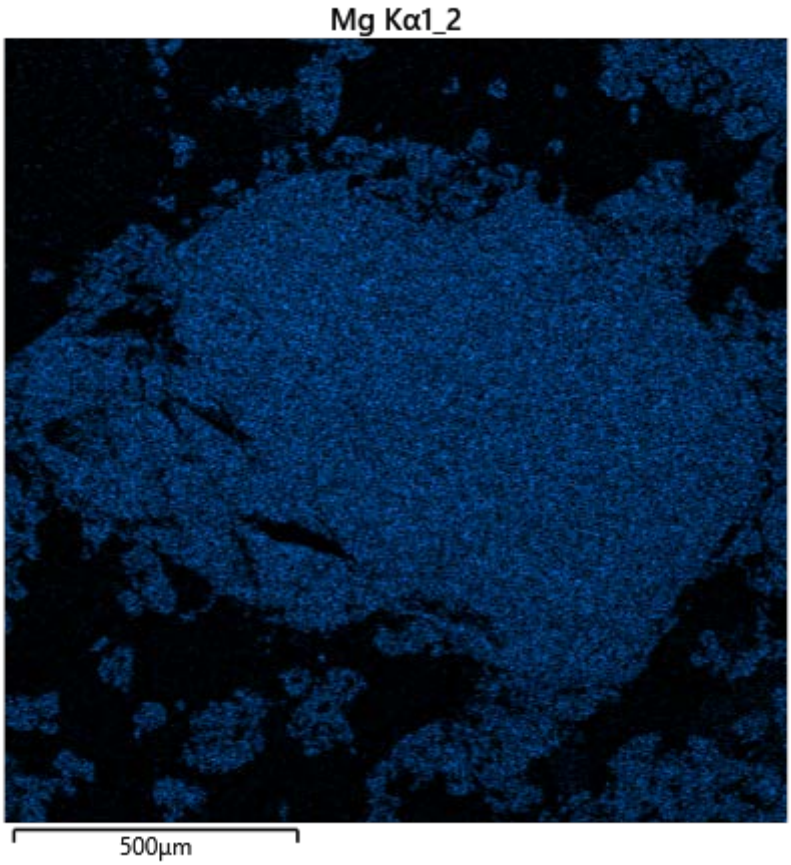

Spectrum 88
O
Ca
P
Mg
Fe
Si
Na
Weight %
50
cps/eV
150
100
50
0
P
Ca
O
Mg
Si
Na
Fe
Ca
Fe
0
5
10
15
keV

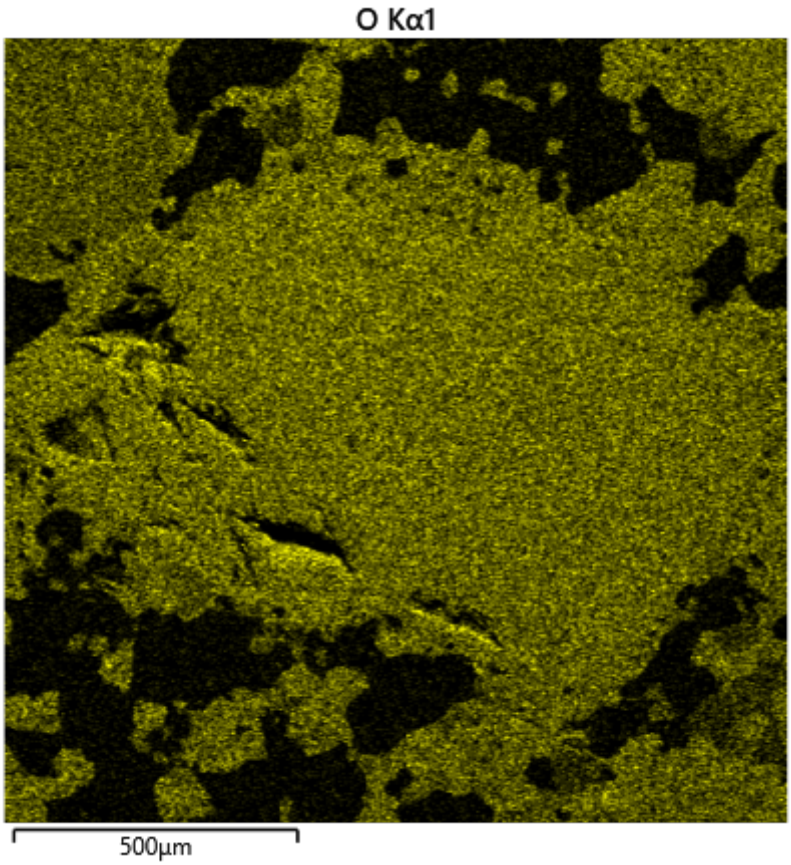
Område 10

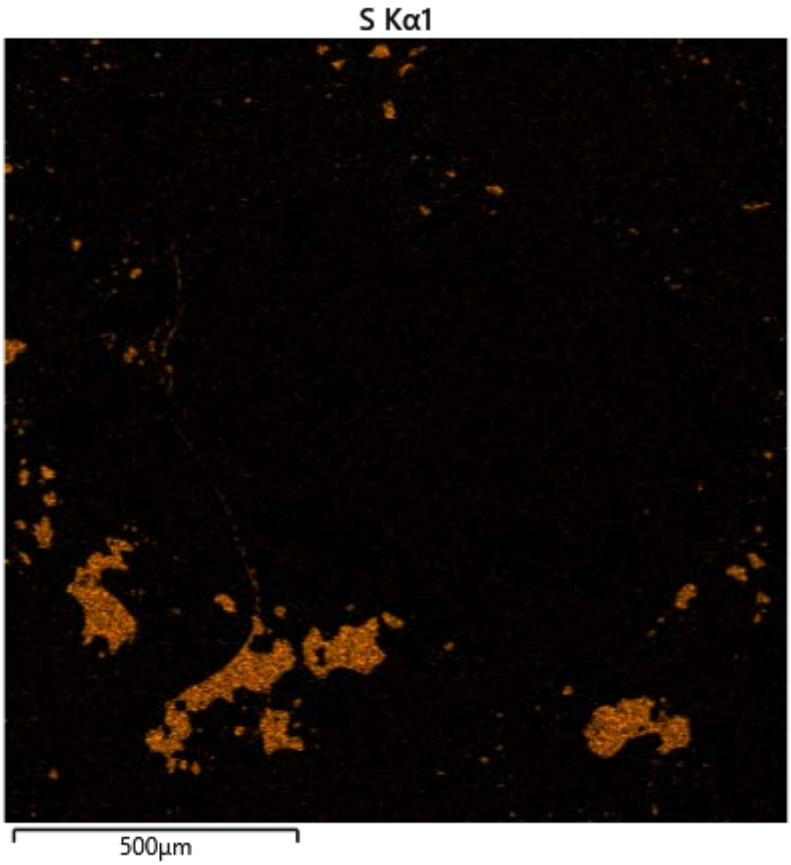


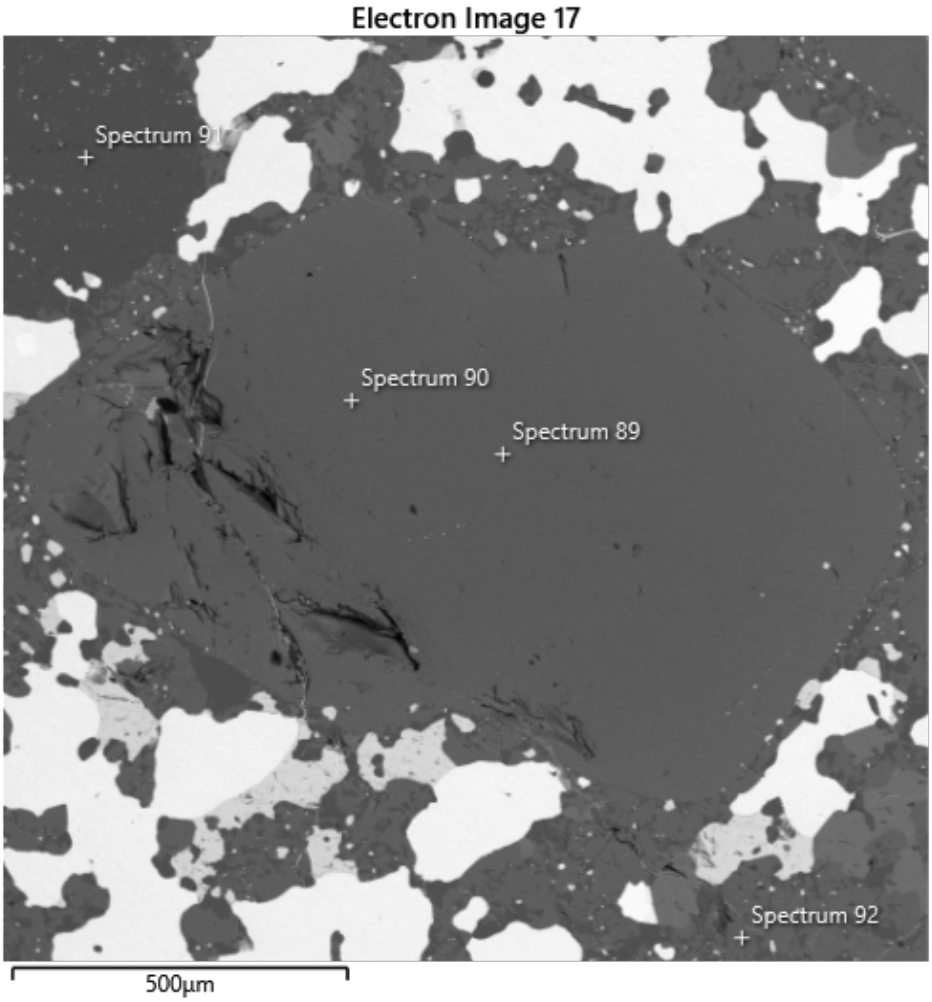

Al Kα1
500µm
C Kα1_2
500µm

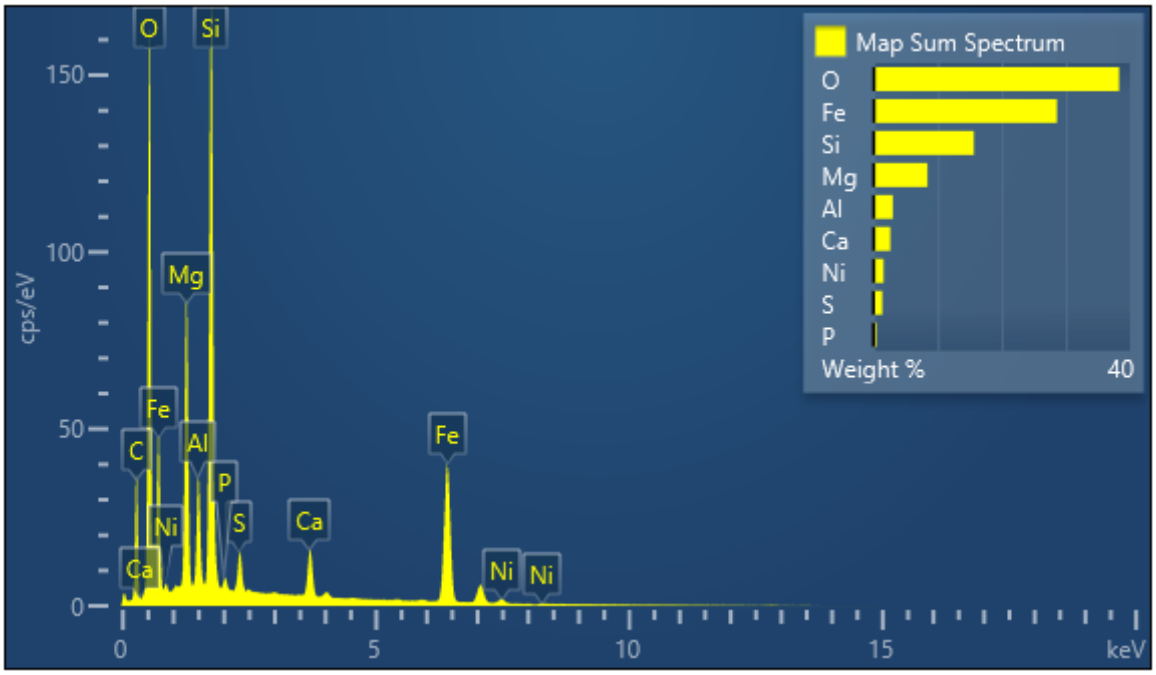

Ca Kα1
500µm
Fe Kα1
500µm

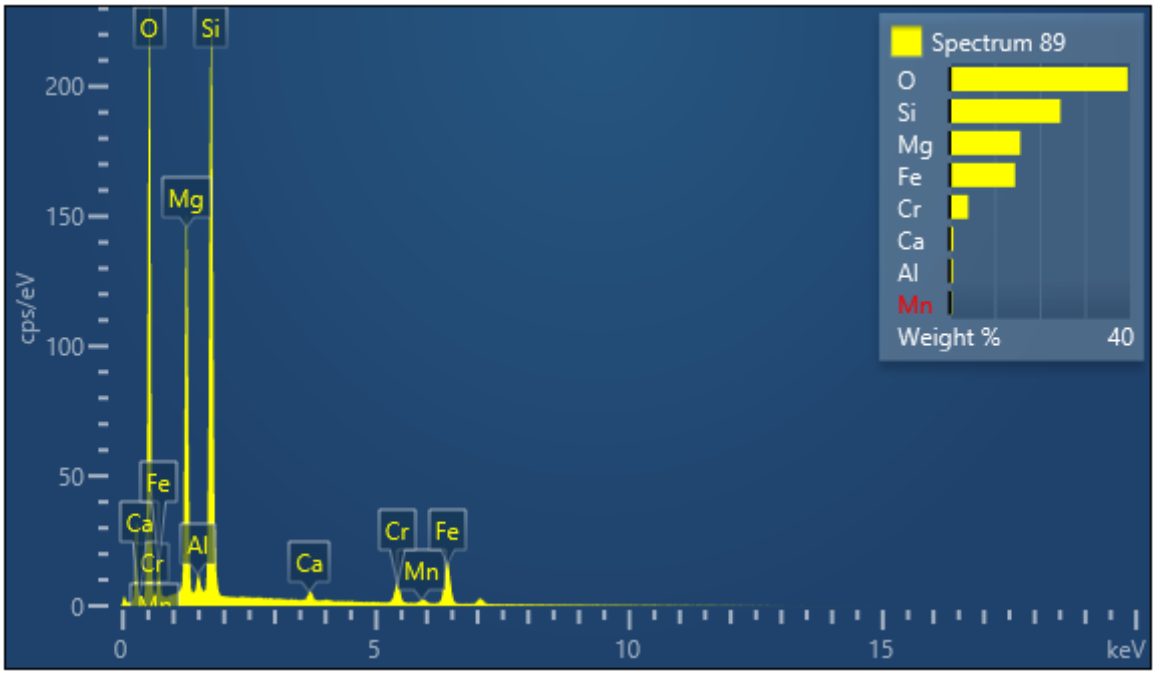

Mg Kα1_2
500µm
Ni Kα1
500µm

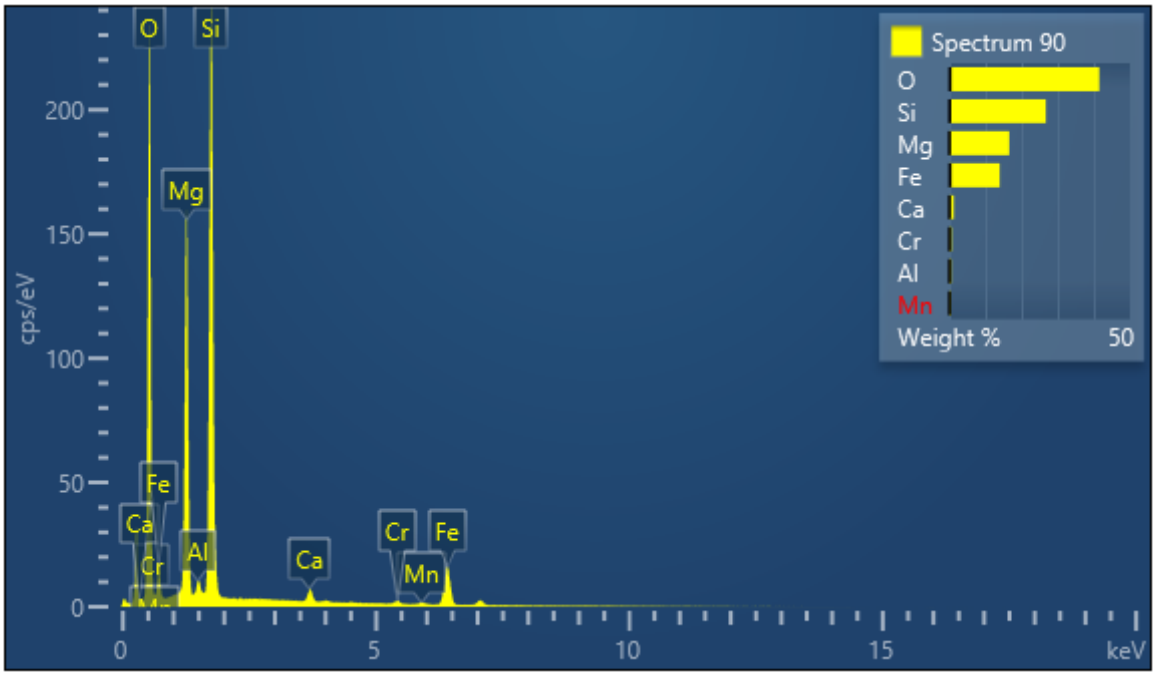

O Kα1
500µm
P Kα1
500µm

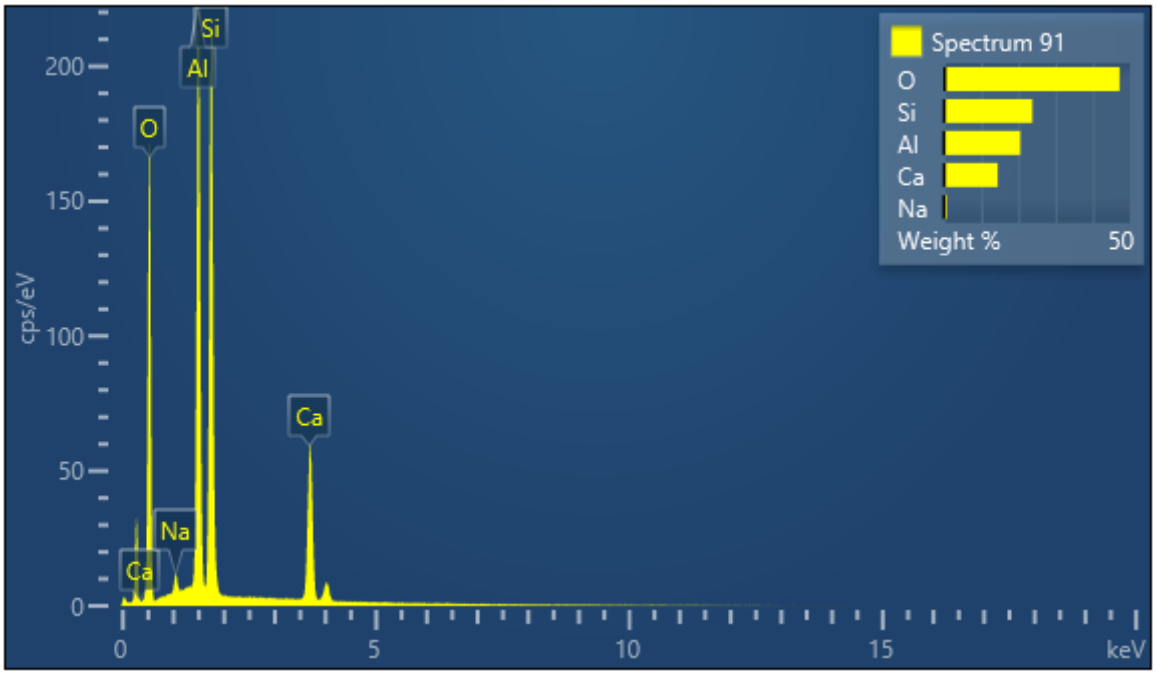

S Kα1
500µm
Si Kα1
500µm

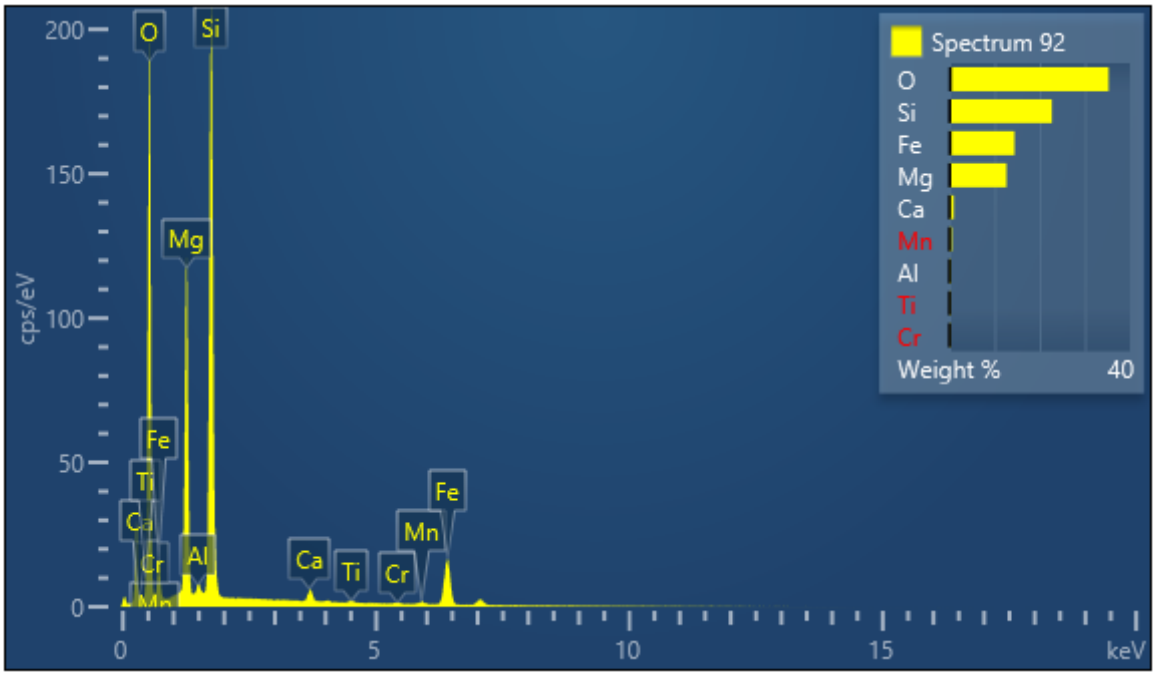

Electron Image 17
Spectrum 91
Spectrum 90
Spectrum 89
Spectrum 92
500µm


Map Sum Spectrum
O
Fe
Si
Mg
Al
Ca
Ni
S
P
Weight %
40
cps/eV
150
100
50
0
O
Si
Mg
Fe
C
Al
P
Ni
S
Ca
Ca
Fe
Ni
Ni
0
5
10
15
keV

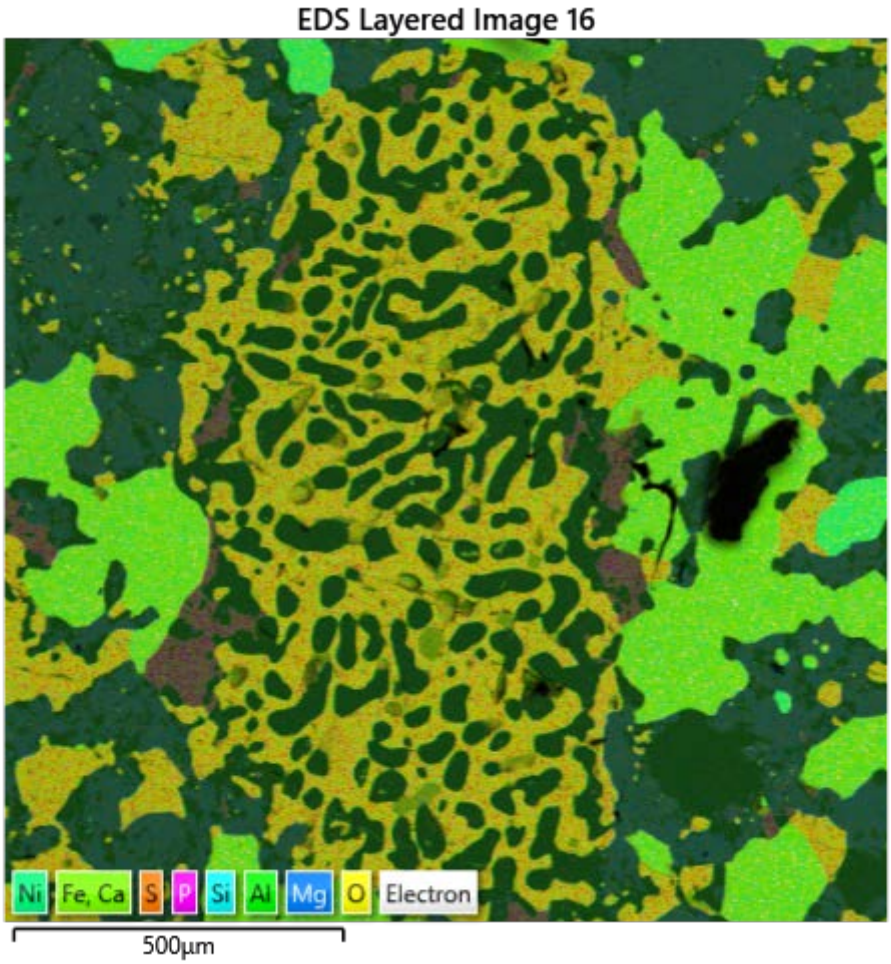

Spectrum 89
O
Si
Mg
Fe
Cr
Ca
Al
Mn
Weight %
40
cps/eV
keV
0
5
10
15
50
100
150
200


Spectrum 90
O
Si
Mg
Fe
Ca
Cr
Al
Mn
Weight %
50
cps/eV
keV
0
5
10
15
50
100
150
200

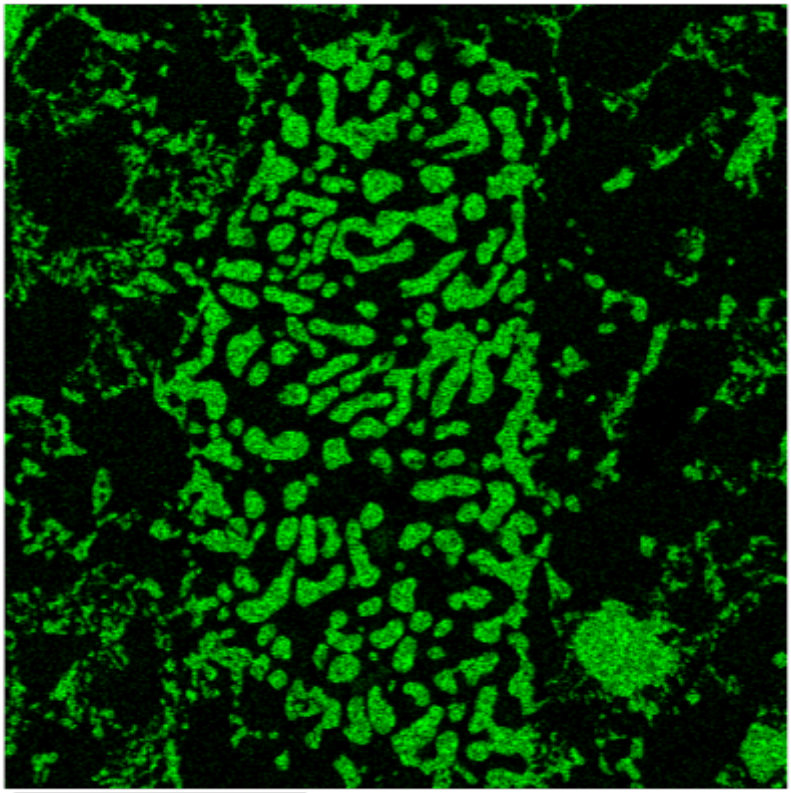

Spectrum 91
O
Si
Al
Ca
Na
Weight %
50
cps/eV
200
150
100
50
0
0
5
10
15
keV
Si
Al
O
Ca
Na
Ca


Spectrum 92
O
Si
Fe
Mg
Ca
Mn
Al
Ti
Cr
Weight %
40
cps/eV
200
150
100
50
0
0
5
10
15
keV
O
Si
Mg
Fe
Ti
Ca
Cr
Al
Ca
Ti
Cr
Mn
Fe

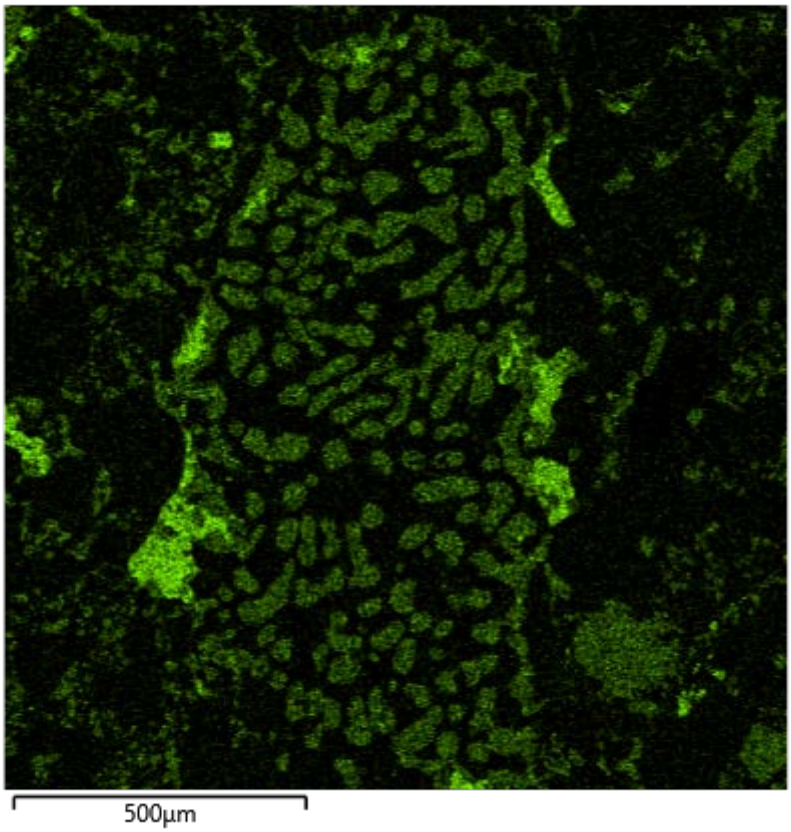
Område 11

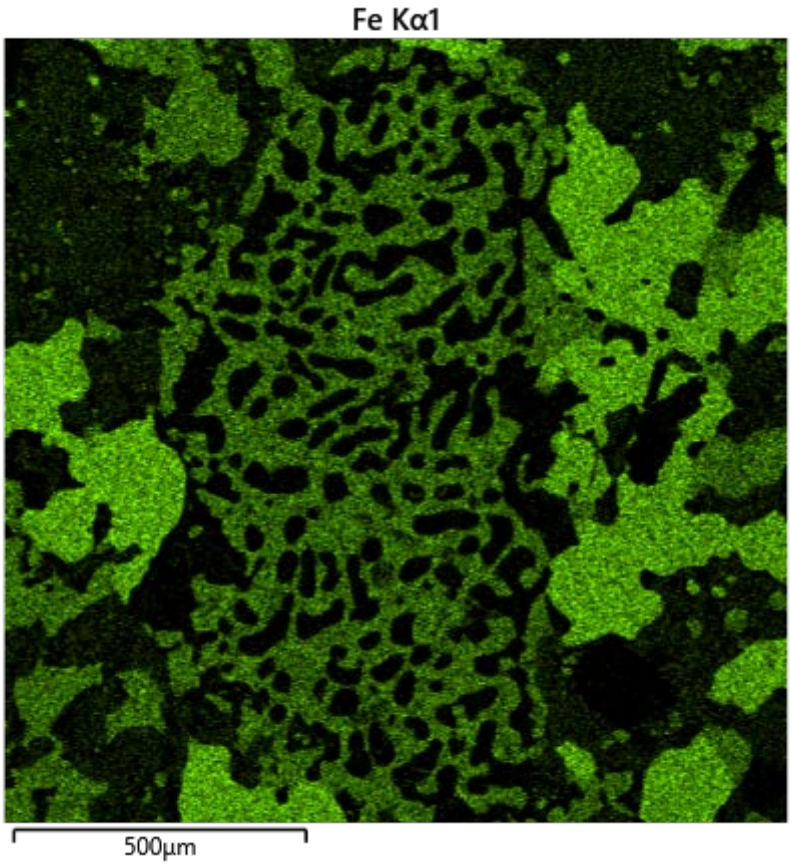


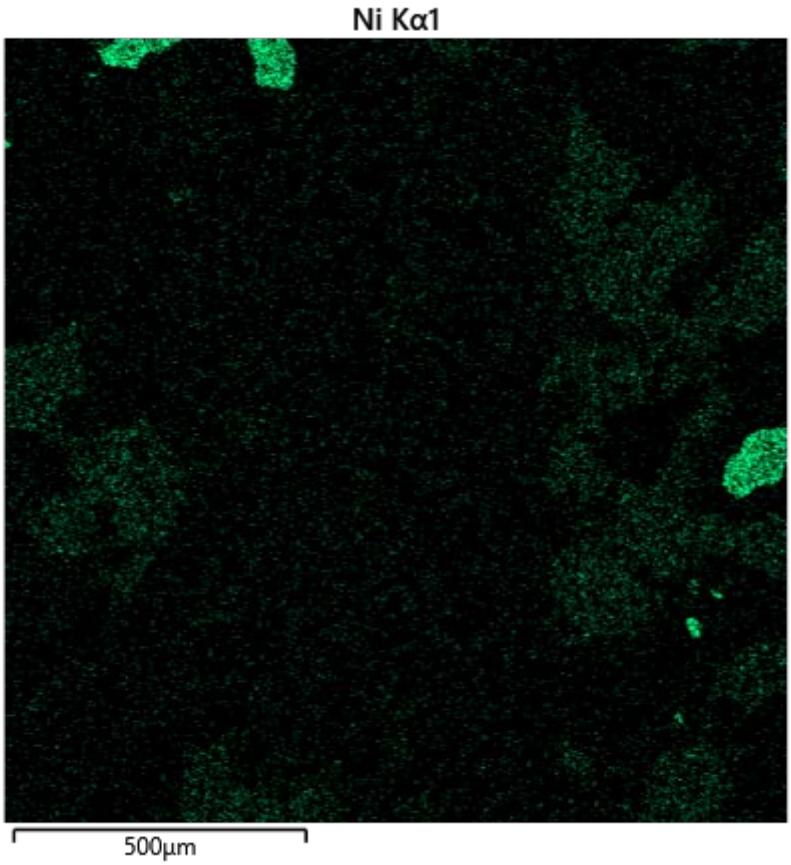
Al Kα1

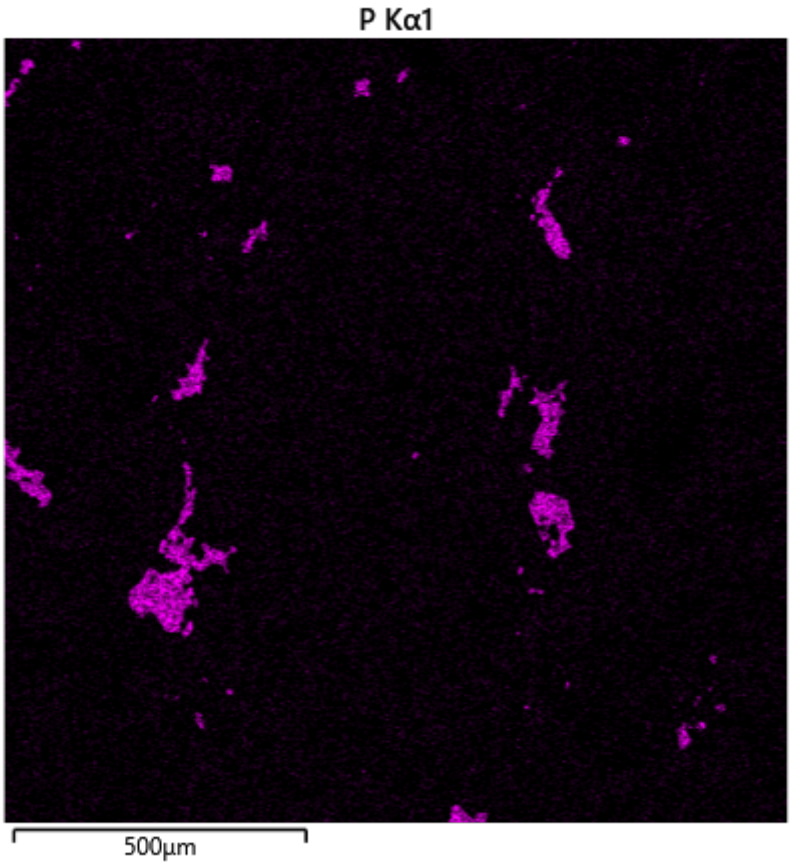


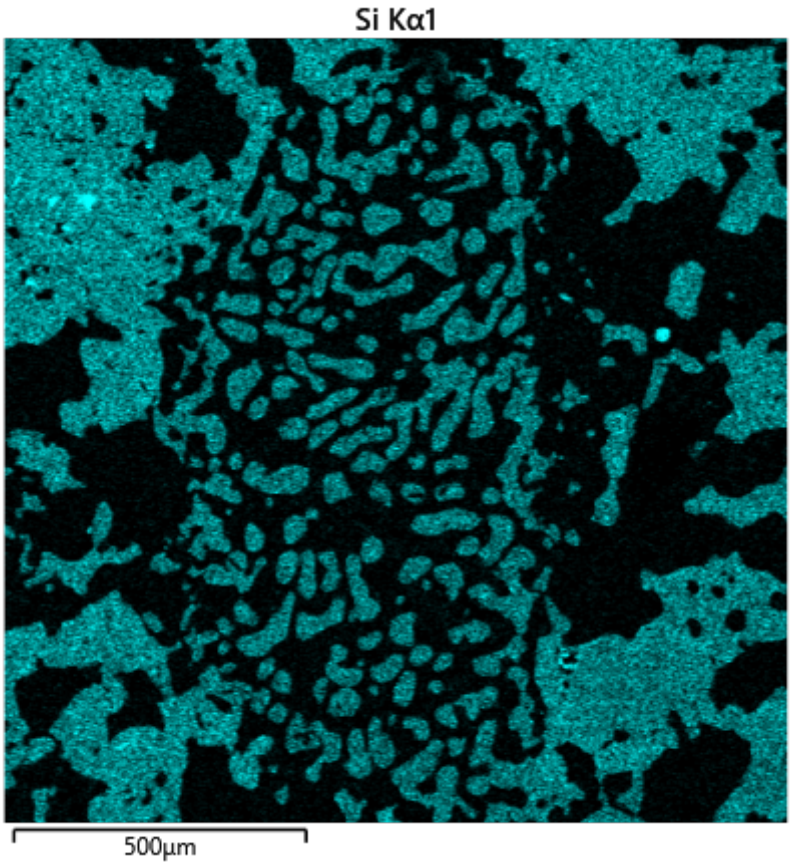
Ca Kα1

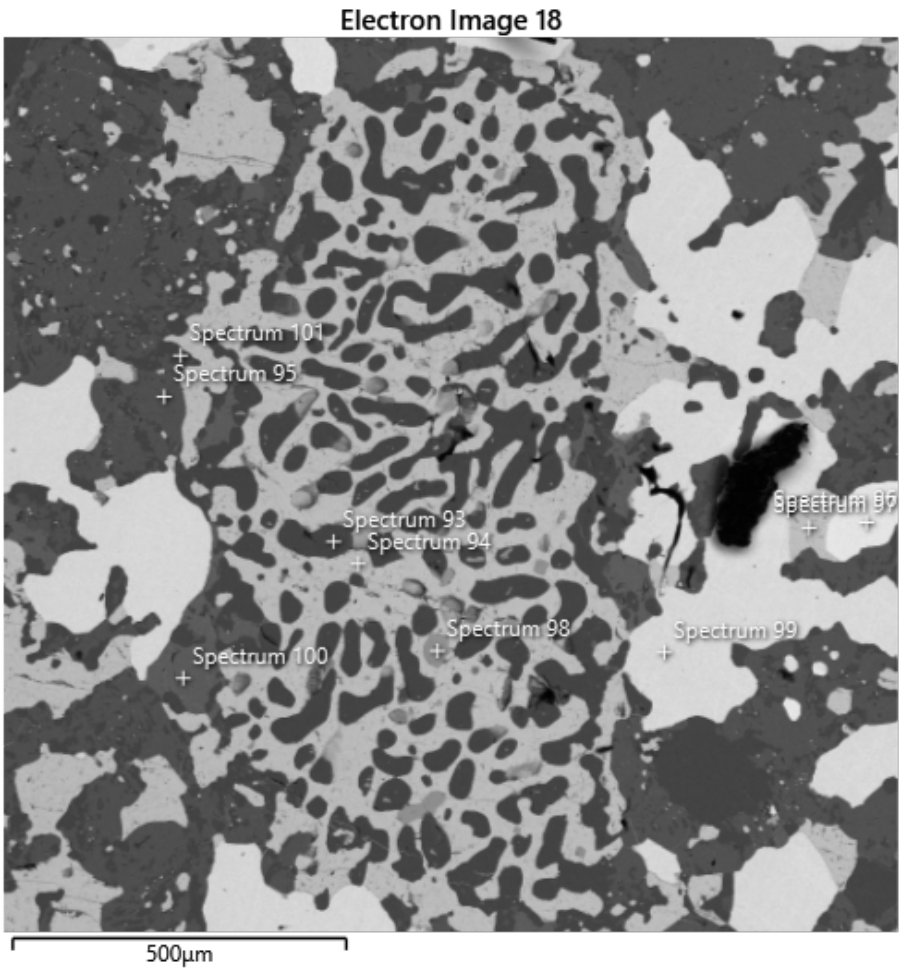


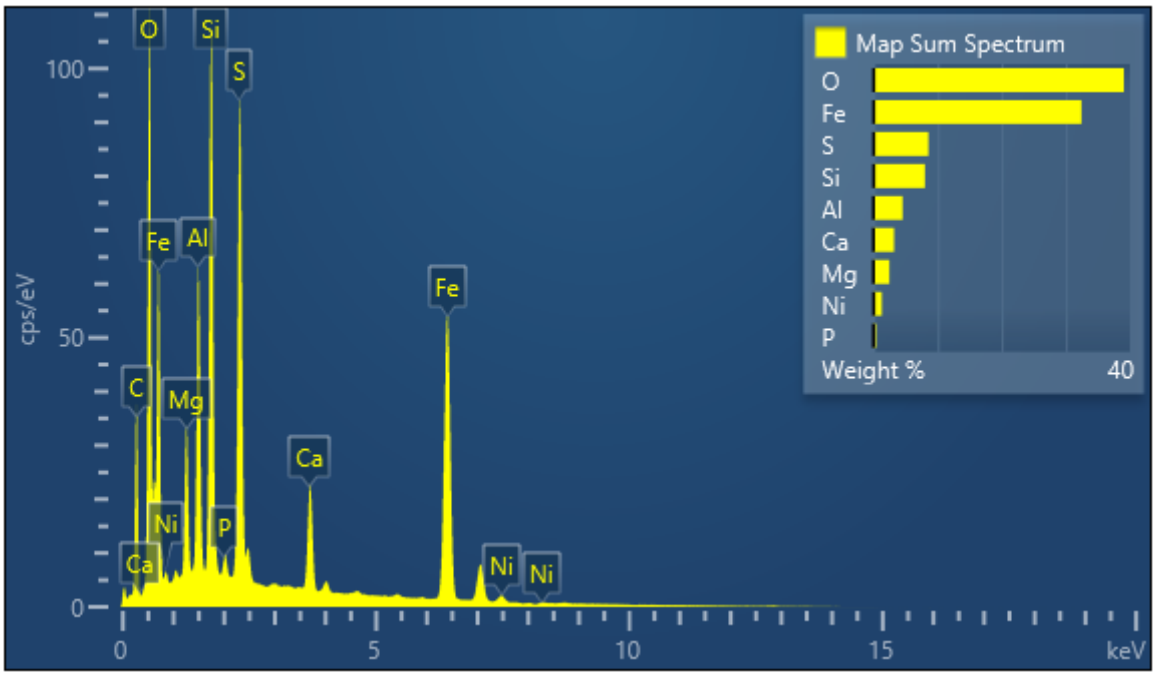

Fe Kα1
500µm
Mg Kα1_2
500µm

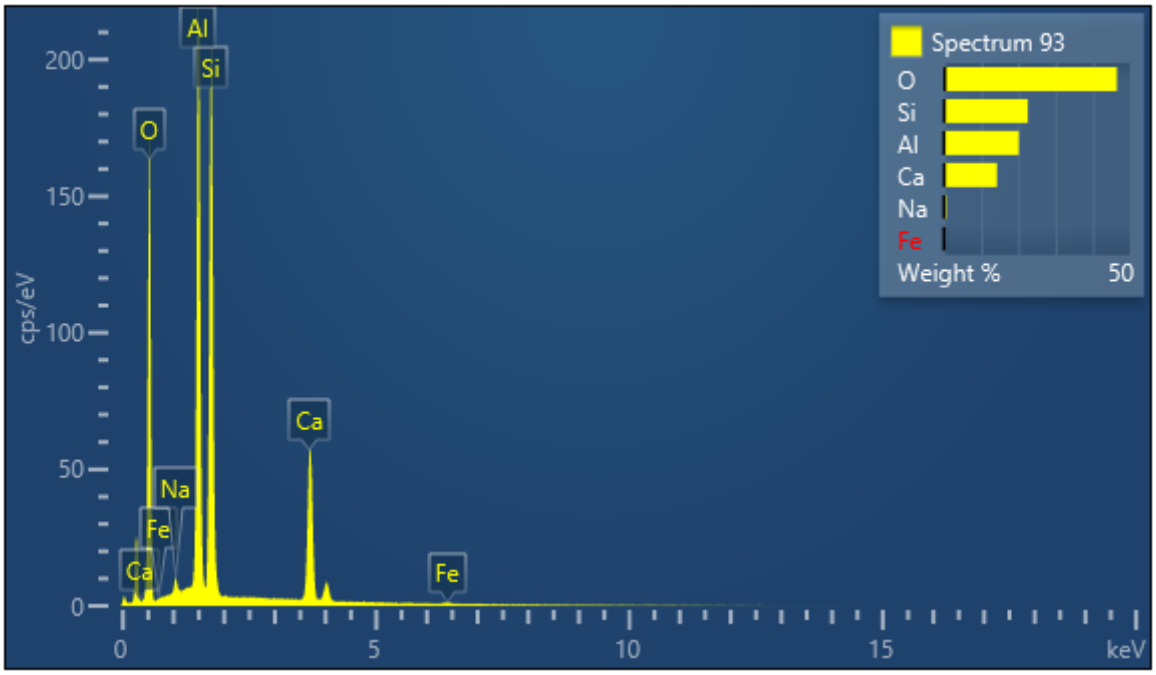

Ni Kα1
500µm
O Kα1
500µm

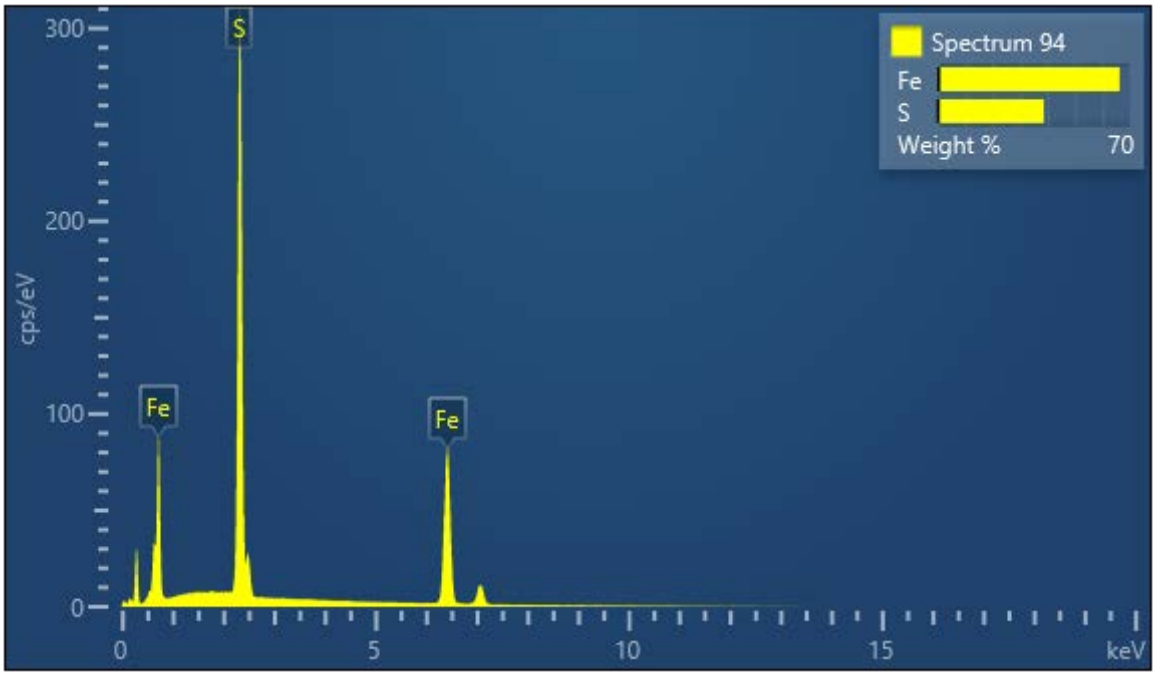

P Kα1
500µm
S Kα1
500µm

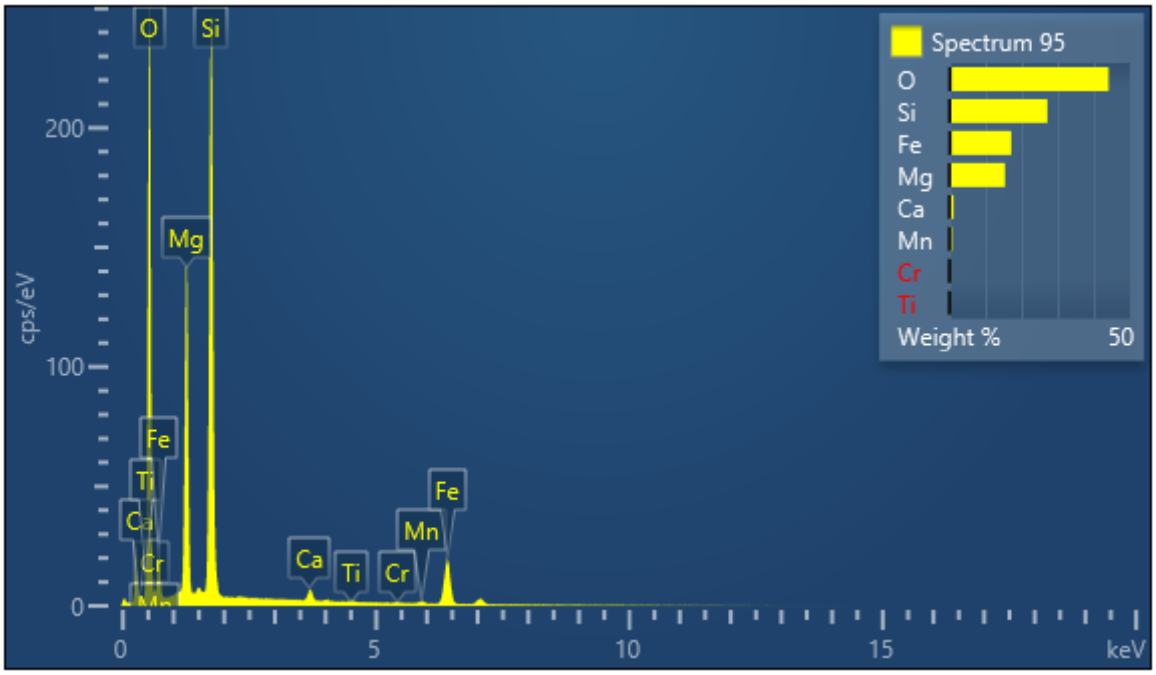

Si Kα1
500µm

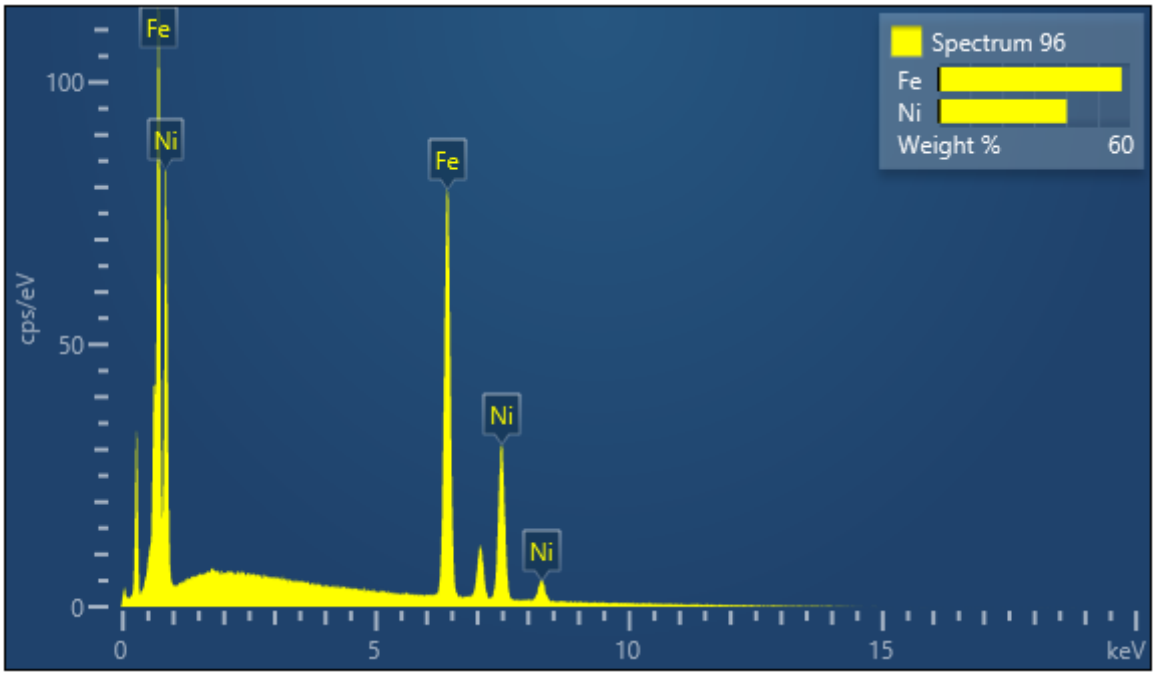

Electron Image 18
Spectrum 101
Spectrum 95
Spectrum 93
Spectrum 94
Spectrum 97
Spectrum 98
Spectrum 99
Spectrum 100
500µm

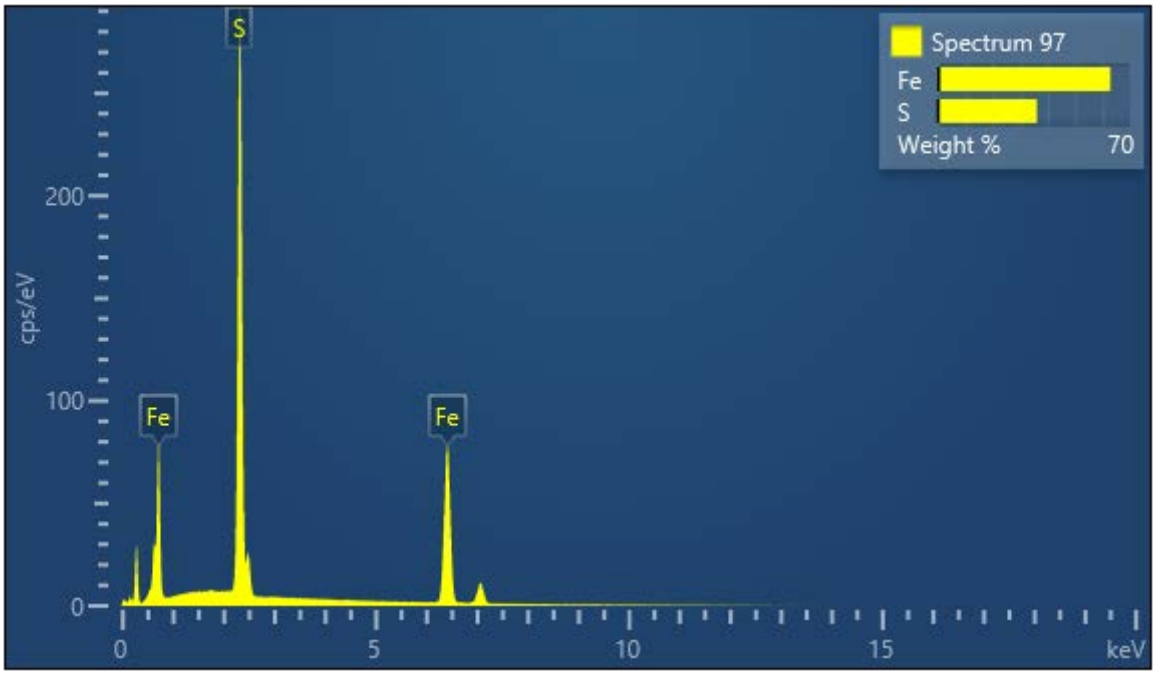

Map Sum Spectrum
O
Fe
S
Si
Al
Ca
Mg
Ni
P
Weight %
40
cps/eV
100
50
0
0
5
10
15
keV

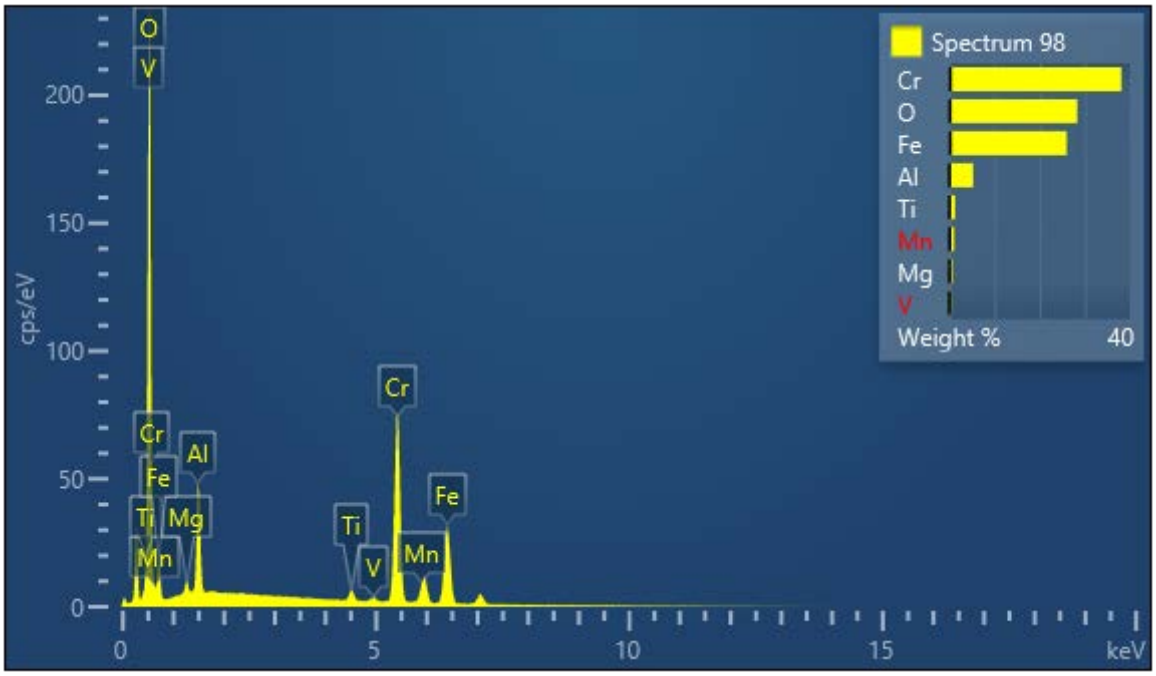

Spectrum 93
O
Si
Al
Ca
Na
Fe
Weight %
50
cps/eV
keV
Al
Si
O
Ca
Na
Fe
Ca
Fe

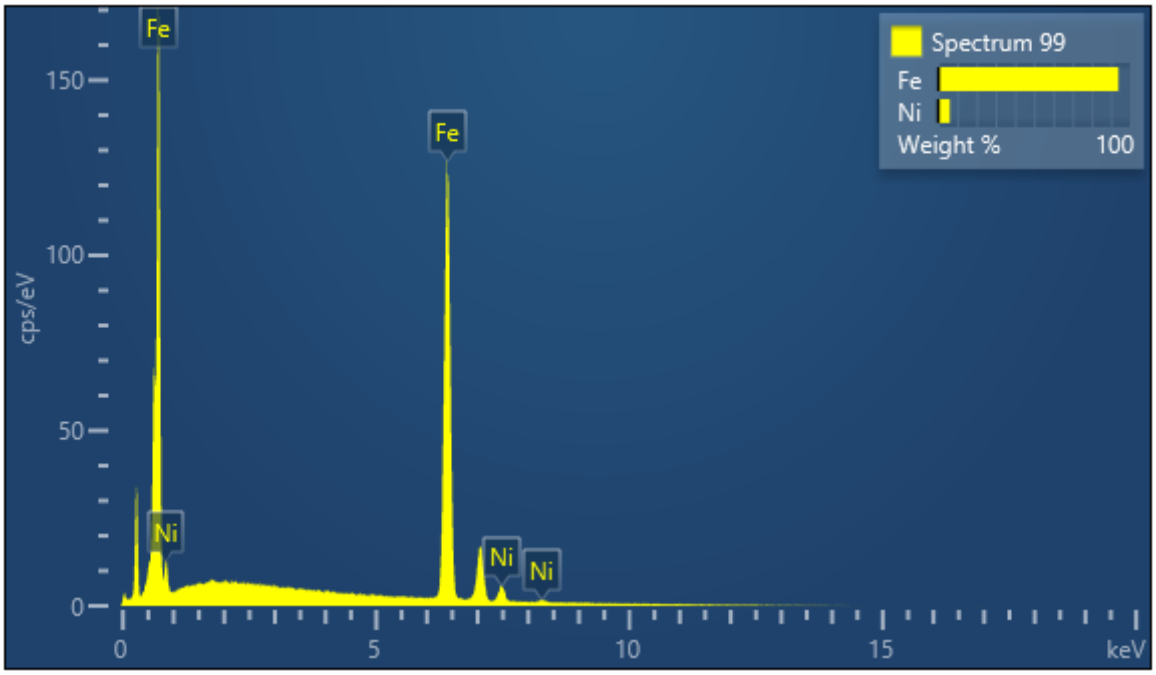

Spectrum 94
Fe
S
Weight %
70
cps/eV
keV
S
Fe
Fe

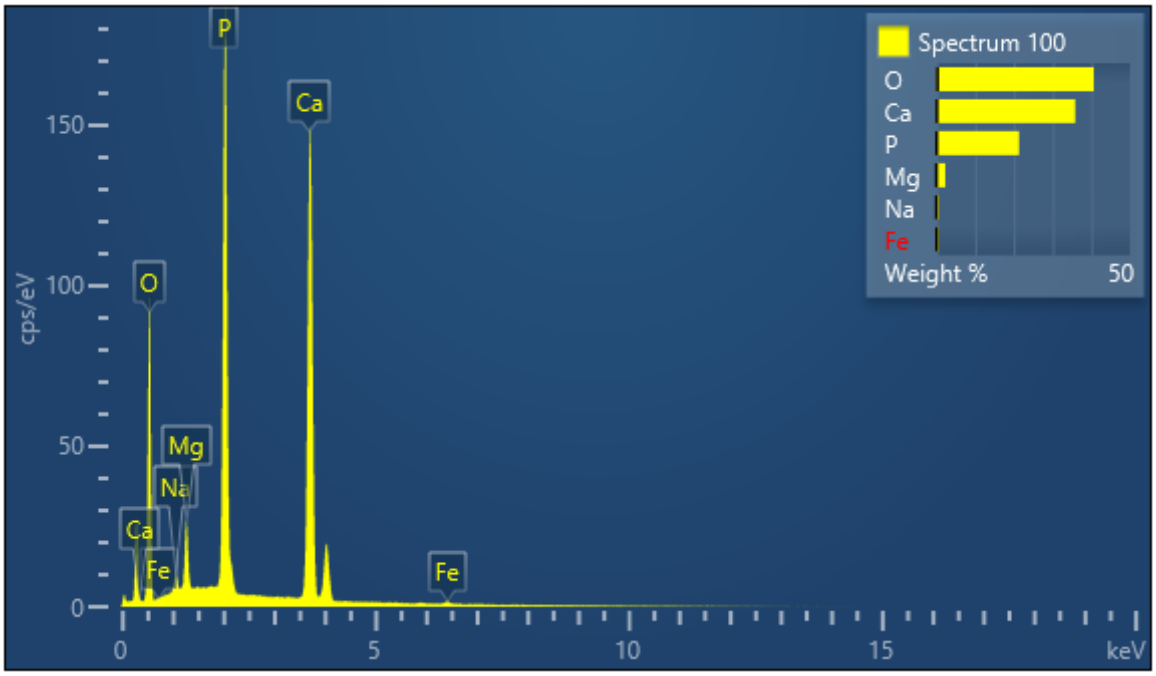

Spectrum 95
O
Si
Fe
Mg
Ca
Mn
Cr
Ti
Weight %
50
cps/eV
200
100
0
O
Si
Mg
Fe
Ti
Ca
Cr
Ca
Ti
Cr
Mn
Fe
0
5
10
15
keV

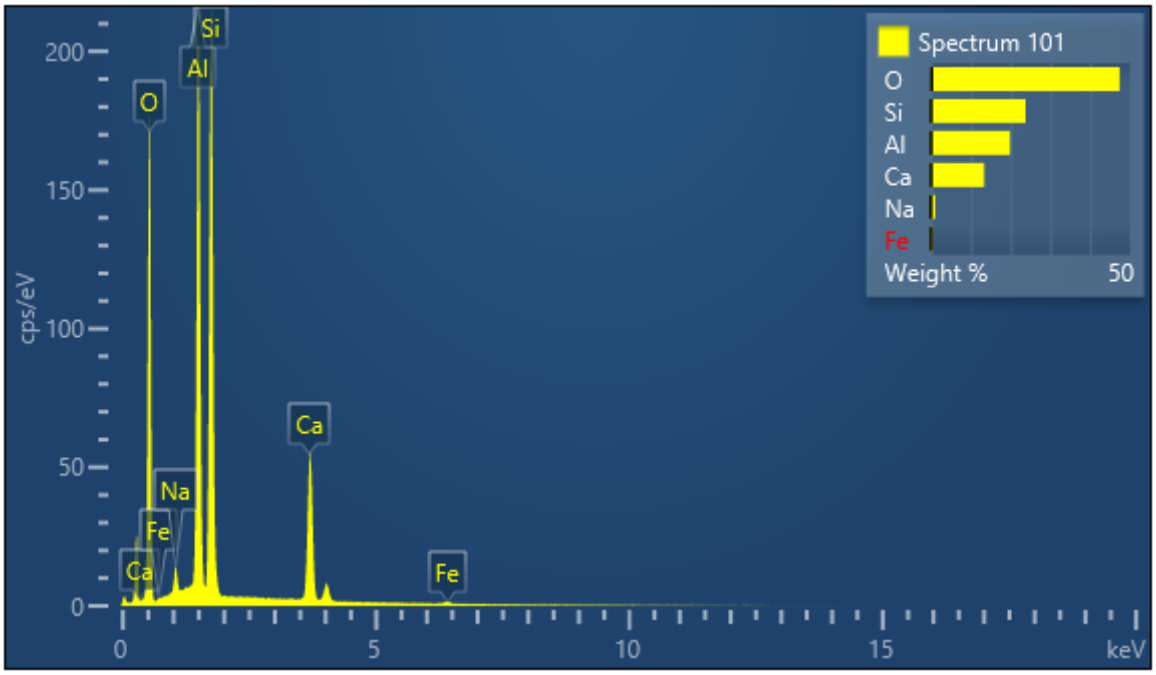

Spectrum 96
Fe
Ni
Weight %
60
cps/eV
100
50
0
Fe
Ni
Fe
Ni
Ni
0
5
10
15
keV


Spectrum 97
Fe
S
Weight %
70
S
Fe
Fe
200
100
0
cps/eV
0
5
10
15
keV


Spectrum 98
Cr
O
Fe
Al
Ti
Mn
Mg
V
Weight %
40
O
V
Cr
Fe
Ti
Mg
Mn
Al
Cr
Ti
V
Mn
Fe
200
150
100
50
0
cps/eV
0
5
10
15
keV


Spectrum 99
Fe
Ni
Weight %
100
Fe
Fe
Ni
Ni
Ni
cps/eV
150
100
50
0
0
5
10
15
keV


Spectrum 100
O
Ca
P
Mg
Na
Fe
Weight %
50
P
Ca
O
Mg
Na
Ca
Fe
Fe
cps/eV
150
100
50
0
0
5
10
15
keV


Spectrum 101
O
Si
Al
Ca
Na
Fe
Weight %
50
cps/eV
200
150
100
50
0
Si
Al
O
Ca
Na
Fe
Ca
Fe
0
5
10
15
keV