

Report ID	CA 001-0614	11/06/14
Customer		
Sample ID	ANHYDRITE SUPER	
Test	SCANNING ELECTRON MICROSCOPE	
Lab address	PF Lab Services – Simbario (VV) – ITALY	
Operator	Ing. Paola Averta	

SAMPLE PICTURE



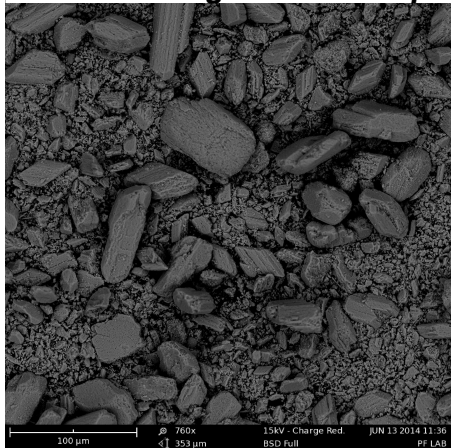
SAMPLE PREPARATION

The sample of ANHYDRITE SUPER is analyzed with SEM scanning electron microscope. A sample has been mounted and immobilized on the stub and inserted into the hole on the mounting surface and then at least 2 mm below the top surface of the holder. With the Phenom ProX desktop SEM, sample structures can be physically examined and their elemental composition determined.

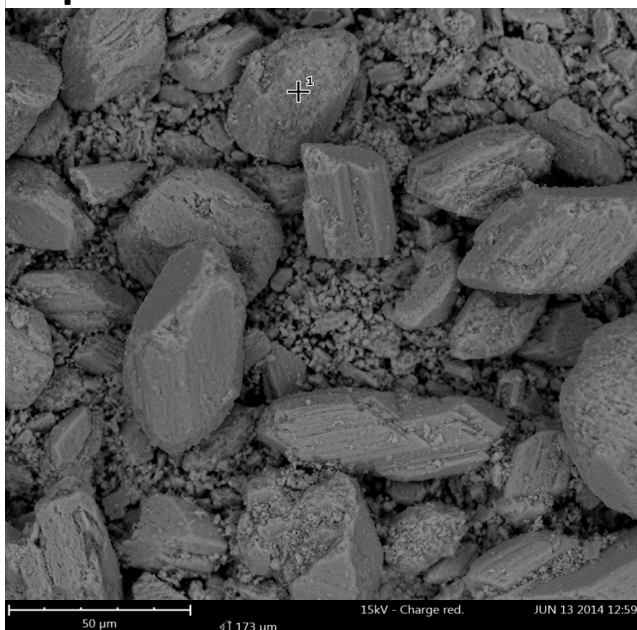
CHEMICAL ANALYSIS EDS

Makes a point analysis on a selected position in the image.

Electron image of the sample

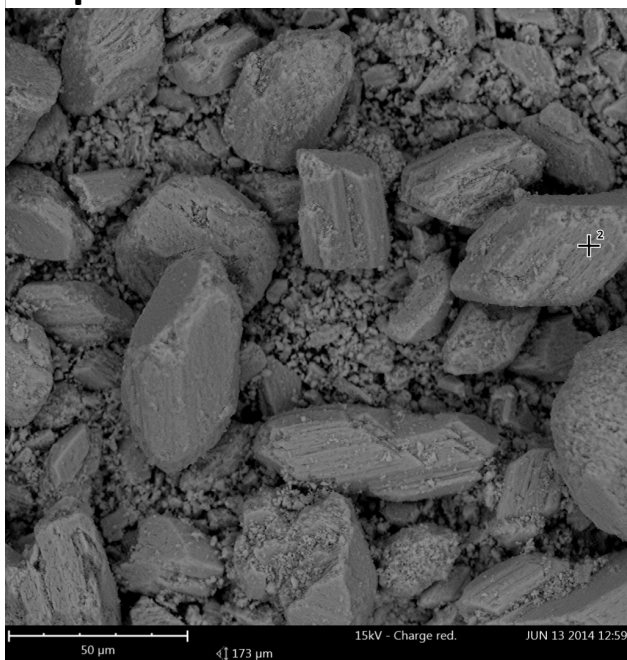


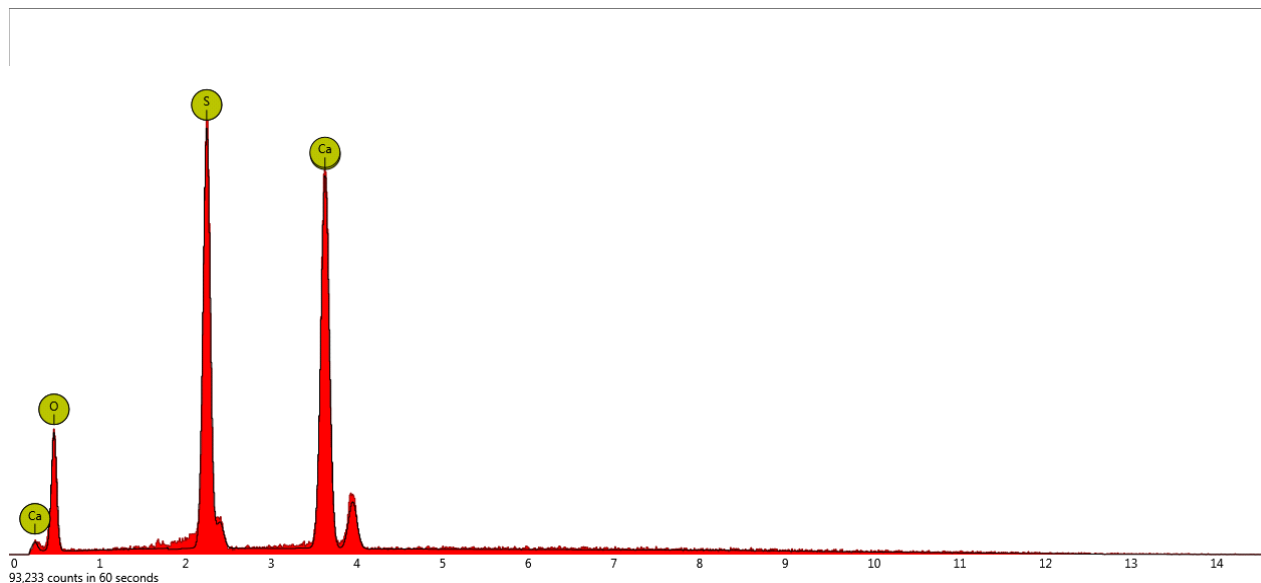
1.spot



Element Number	Element Symbol	Element Name	Confidence	Concentration	Error
20	Ca	Calcium	100.0	29.8	0.8
16	S	Sulfur	100.0	17.3	0.9
8	O	Oxygen	100.0	52.9	1.5

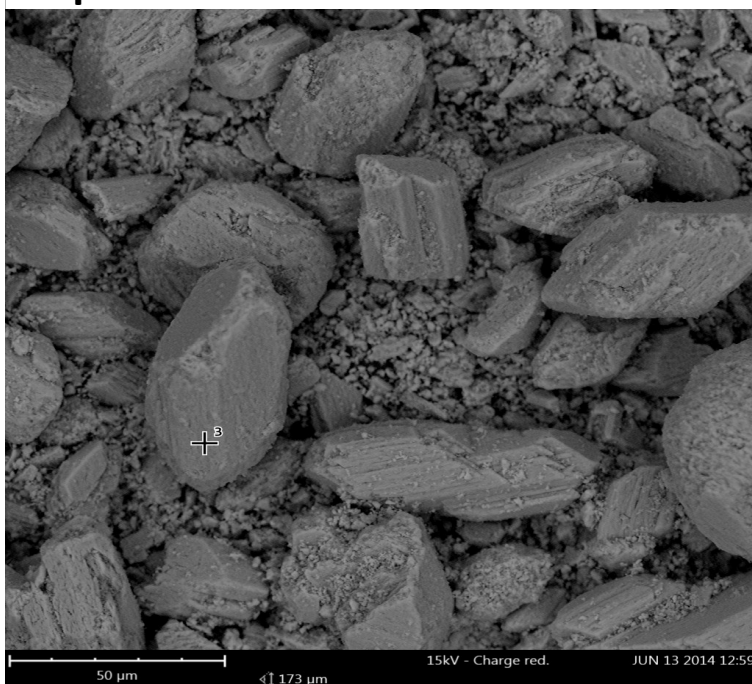
2. spot

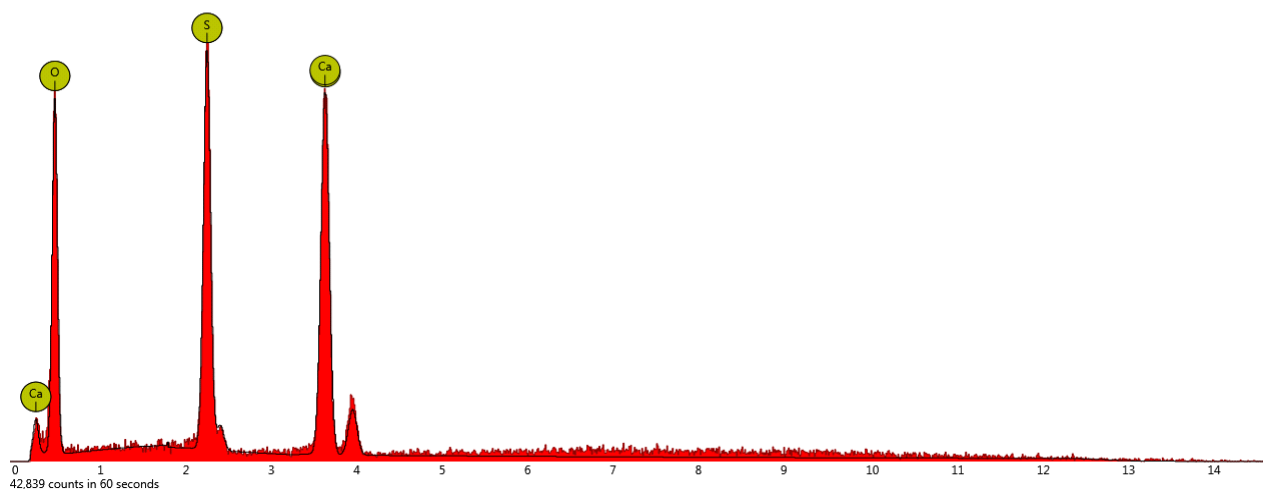




Element Number	Element Symbol	Element Name	Confidence	Concentration	Error
20	Ca	Calcium	100.0	34.7	0.7
16	S	Sulfur	100.0	21.9	0.7
8	O	Oxygen	100.0	43.4	1.7

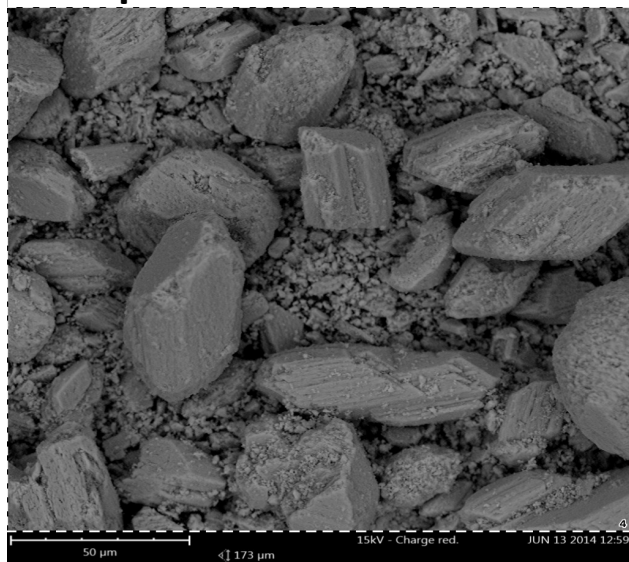
3. spot

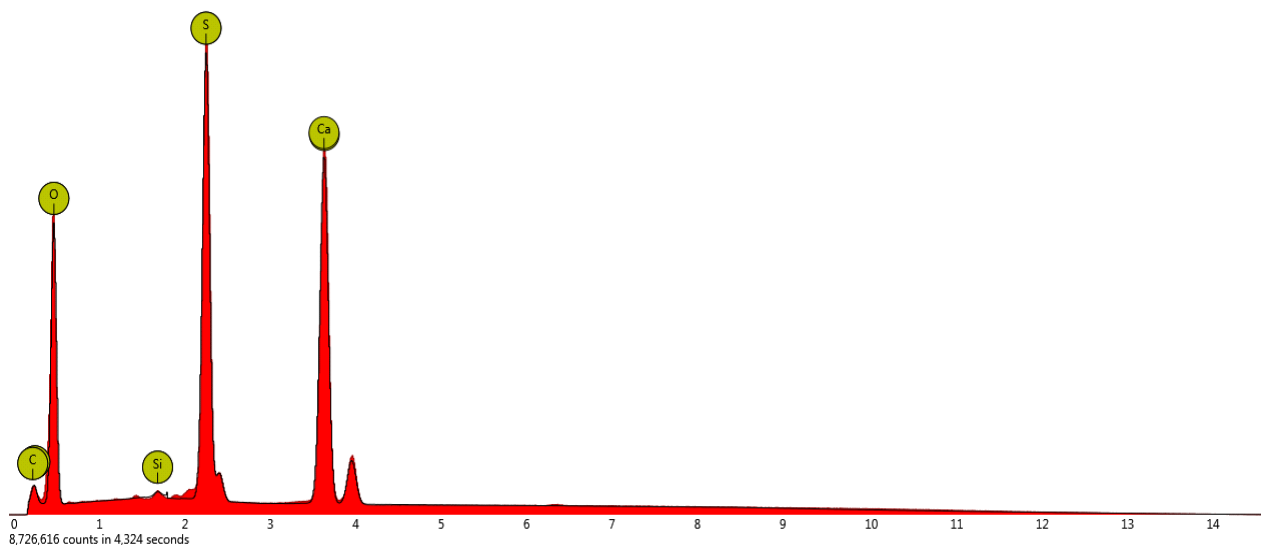




Element Number	Element Symbol	Element Name	Confidence	Concentration	Error
20	Ca	Calcium	100.0	22.7	1.3
16	S	Sulfur	100.0	14.4	1.3
8	O	Oxygen	100.0	62.9	1.7

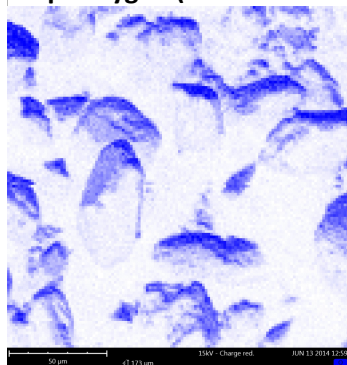
4. map



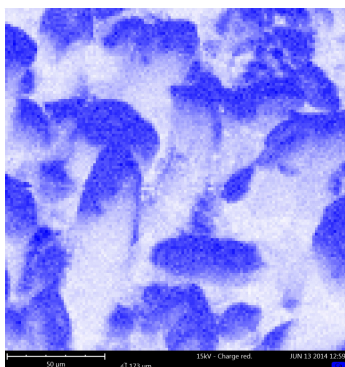


Element Number	Element Symbol	Element Name	Confidence	Concentration	Error
16	S	Sulfur	100.0	17.4	0.1
20	Ca	Calcium	100.0	23.7	0.1
8	O	Oxygen	100.0	58.3	0.1
6	C	Carbon	100.0	0.5	0.7
14	Si	Silicon	Manual	0.1	2.3

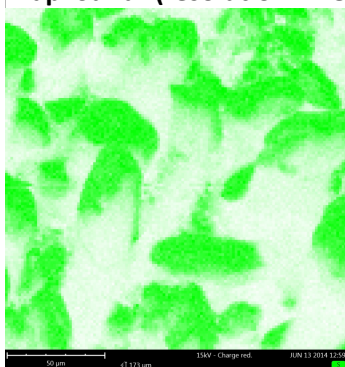
Map: Oxygen (resolution: 128x128 pixels)



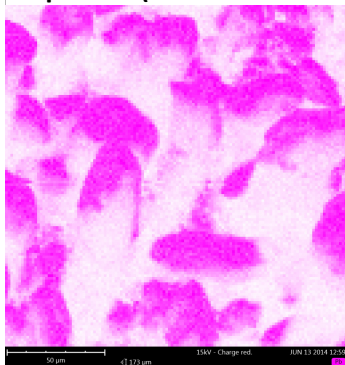
Map: Calcium (resolution: 128x128 pixels)



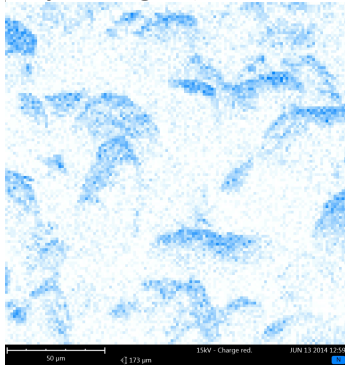
Map: Sulfur (resolution: 128x128 pixels)



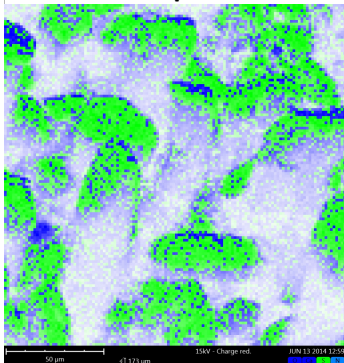
Map: Lead (resolution: 128x128 pixels)



Map: Nitrogen (resolution: 128x128 pixels)



Combined map



The EDS analysis has identified all elements that are displayed in a list for each spot, and ordered in weight concentration. In this sample of CaSO_4 the main elements detected are S (sulfur), Ca (Calcium) and O (oxygen).

DATE
16/06/2014

PERSONAL FACTORY REFERENT
Ing. Paola Averta