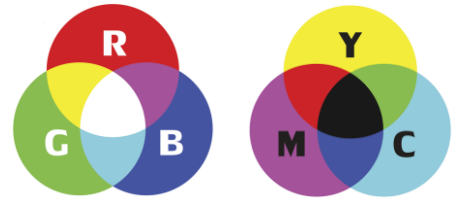


## Color analysis on Real View® TA

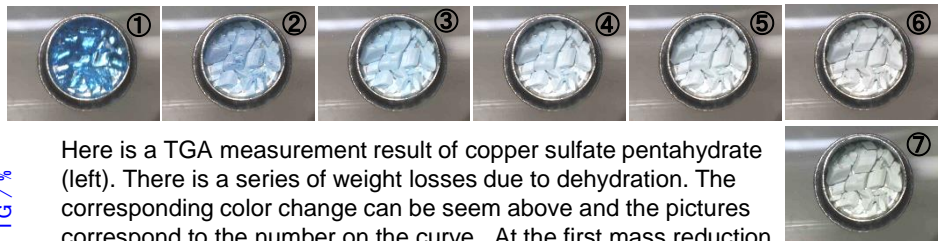
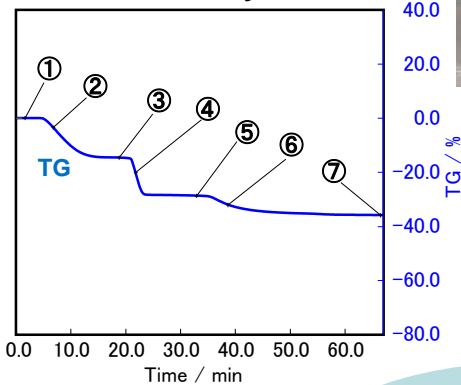
2019. 5

Previously introduced, Real View® allows the observation of the state change of the sample during measurement. Extending this capability, we now introduce a new function for Real View: “color analysis” including RGB and CMYK value analysis. This allows a more accurate characterization of the changes in the material. The RGB value analysis graphs the color of the sample in the image by three colors; red, green, and blue. The color change of the sample during experiments can be expressed as a change in the numerical value of these colors. The CMYK option does the same with four colors: cyan, magenta, yellow, and black. These options allow you to express changes in a sample numerically: for example the Discoloration of a resin due to thermal degradation or oxidation.



### Results

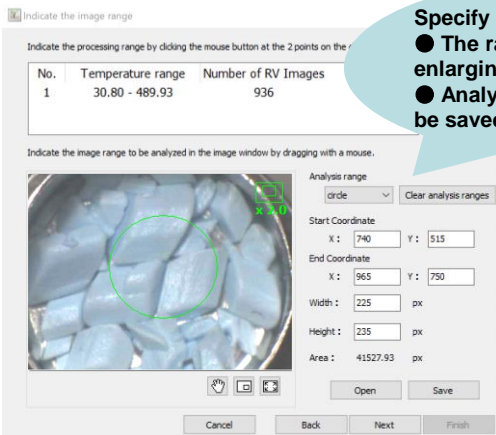
#### RGB value analysis



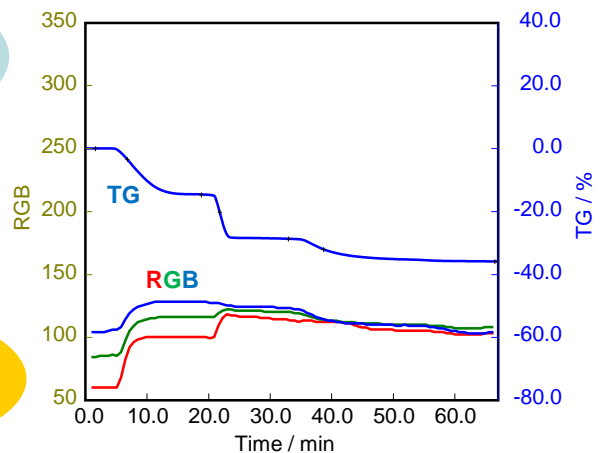
Here is a TGA measurement result of copper sulfate pentahydrate (left). There is a series of weight losses due to dehydration. The corresponding color change can be seen above and the pictures correspond to the number on the curve. At the first mass reduction, the RGB value increase as the sample becomes paler and brighter. In the second loss, the color shifts again as seen in the values of R and G increase.

**Specify analysis position in image**

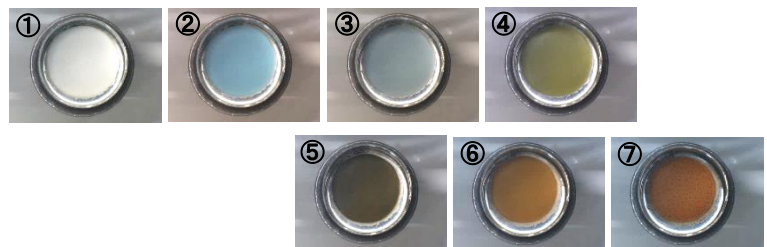
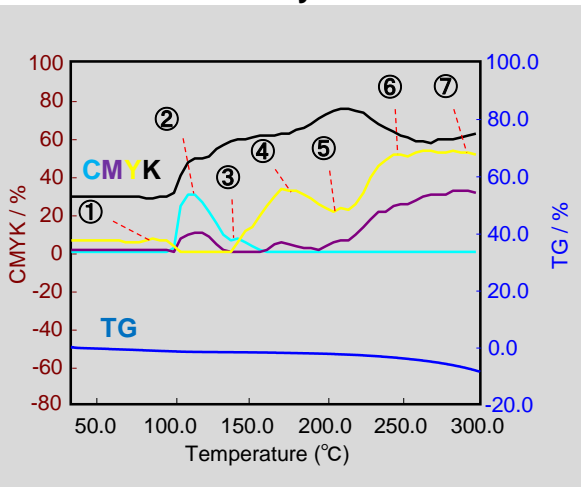
- The range can be specified by enlarging the image.
- Analysis position information can be saved.



**Batch analysis and graphing of all selected images.**



#### CMYK value analysis



Here is the TGA run on thermal paper. With Real View®, you can see how many times the color changes without any weight loss. Even when the weight is stable, Real View lets you detect changes in the material by the CMYK analysis.