

Integrate Spectra

Integrate spectra in various ways.

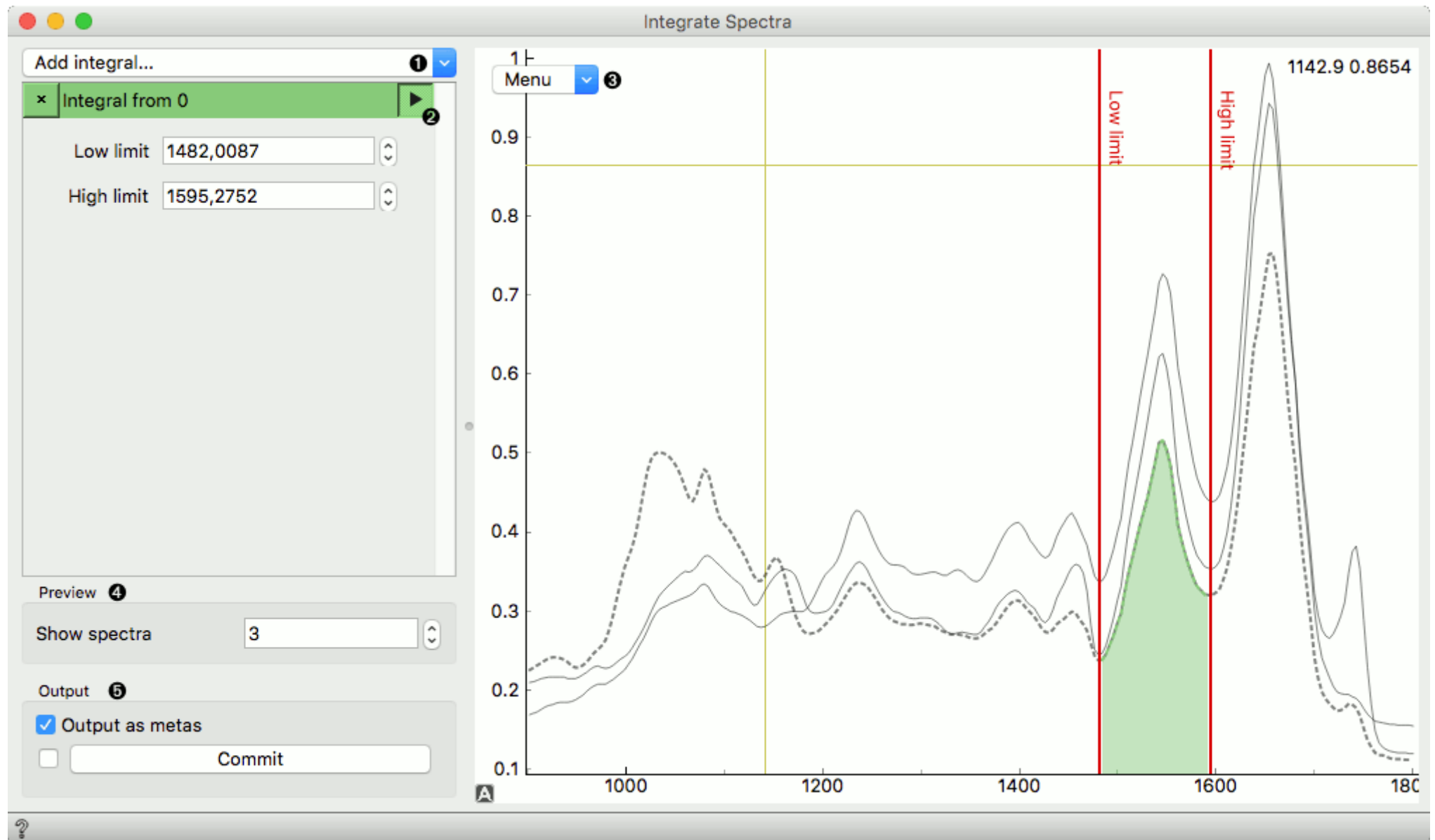
Inputs

- Data: input dataset

Outputs

- Integrated Data: data with integrals appended
- Preprocessor: preprocessing method

The **Integrate Spectra** widget allows you to add integrals to your data by selecting regions of interest and integrating them with several methods.



1. Add integral:

- Integral from 0:
- Integral from baseline:
- Peak from 0:
- Peak from baseline:
- Closest value:

- X-value of maximum from 0:
 - X-value of maximum from baseline
2. Toggle preview.
 3. Preview plot with its editor menu like in the **Spectra** widget.
 4. Show a subsample of the spectra (implemented for performance).
 5. Output integrals as meta attributes. Otherwise only integrals will be output. Commit to send the changes to the output.

Example

This is a simple example on how to use the **Integrate Spectra** widget. The widget provides many options for integrating spectral areas and the results are appended as additional columns to the data.

We are using the *liver spectroscopy* data set from the **Datasets** widget. In **Integrate Spectra** we have selected *integral from 0* and set the lower and upper limit with the red lines. We could also do it by setting the *Low limit* and *High limit* values on the left.

To observe the integrated area, we need to press the triangular play button next to the method. To output the data, we need to press *Commit*.

Finally, we can observe the additional column with the integral values of the area in a **Data Table**.

