



## Measurement Settings

Measurement settings allow you to specify how your sample is measured and how the data is processed after the spectrum is collected. Your settings control both how the instrument and sampling accessory measure the sample and how OMNIC Paradigm software processes the data.

After adjusting your measurement settings, you can use them immediately or save them for later use.

This guide describes how to set, save, and use common measurement options. For a discussion of advanced settings, see [“Advanced Measurement Settings.”](#)

## Set Measurement Options

Set and save your measurement settings or use previously saved settings before starting a measurement.

Set and save your measurement settings from the dashboard, or update a few options while previewing a sample spectrum.

**Figure 1.** Edit measurement settings in the New Measurement pane.

New Measurement		Settings	None - Factory Preset	Delete	Save	More
Preview and Measure Sample	Measurement name	<current date/time>	Tag			
Preview and Measure Background	Analysis type	None	Final format	Absorbance		
	Sample scans	10	Resolution (cm-1)	4		
	Sampling accessory	None				

The following table describes the settings you will use most frequently.

Option	Description	Default Setting
Measurement name	The name of your sample data. This name will appear when you save or open this data and in any reports you generate. The default name is the date and time of collection.	Date and Time
Number of sample scans	How many times the sample is scanned during the measurement. The resulting data reflects the average of all the scans.  More scans will result in more accurate data but will take longer to measure.	10
Resolution (cm-1)	Like the resolution of a photo or video, a better resolution will mean finer detail in your spectral data. For example, a better resolution will distinguish between two very close peaks while a poor resolution might combine them.  A smaller value results in a higher (better) resolution, but also takes longer to measure.  Typically, resolutions of 4 are used for solid and liquid samples. For gas samples, use a resolution of 1 or 0.5.	4
Analysis type	With OMNIC Paradigm for touchscreen, you select your analysis type from the home screen rather than selecting from a list.  Allows you to automatically process your data after it's collected.  Use <b>None</b> to measure a sample without additional analysis.  <b>Search</b> performs a correlation search. Use search to identify an unknown sample. Edit search settings in the Search Setup view.  <b>QCheck</b> results indicate a match value between your sample and a reference. Use QCheck to verify the composition of a known sample. Edit QCheck settings in the QCheck Setup view.  <b>Quantify</b> is used to quantify the components of a sample using a pre-selected quantification method. Select Identify > Quantify Setup to specify a quantification method.	None

Option	Description	Default Setting
Tag	Allows you to add a tag to the spectrum. Tags can later be used when searching for a spectrum.	
Final format	Determines the units used for the collected data. You can convert your data to another Y-axis unit after collection in the View/Display menu.	Absorbance
Sampling accessory	The sampling accessory used to measure the sample. Smart accessories are detected automatically.	

## Save Your Measurement Settings

Name and save your measurement settings so that you can easily select them from the dashboard for later use. Settings for Search, QCheck, and Quantify analyses are not saved in these settings.

### ❖ To save your measurement settings

1. Make any desired changes to the settings.
2. Click in the Settings menu at the top of the dashboard.
3. Enter a new name for the settings and click **Save**.  
Saved settings are added to the Settings list for later use.

## Work with Saved Measurement Settings

Once you have saved your measurement settings, you can edit or delete the settings.

### ❖ To make changes to your saved settings

1. Select the named settings that you want to update from the Settings menu.
2. Edit the settings
3. Without entering a new name for the settings, click **Save**.
4. Click **Update** in the confirmation dialog to save your changes.  
Your new settings are now saved under the old setting name and are available in the Settings menu.

### ❖ To delete your saved settings

1. Select the named settings you want to delete from the Settings menu.

2. Click **Delete**.
3. In the confirmation dialog, click **Yes** to permanently delete the named settings.

## Import and Export Saved Settings

OMNIC Paradigm software saves settings files with a .expx file extension. These are different than the experiment files from previous versions of OMNIC (.exp). OMNIC experiment files are not compatible with OMNIC Paradigm and cannot be imported. Likewise, OMNIC Paradigm settings files (.expx) are not compatible with previous versions of OMNIC software.

Importing a settings file (.expx) updates your measurement settings but not the settings for Search, QCheck, or Quantify setup.

You can export settings from only OMNIC Paradigm software for desktop.

### ❖ To import a settings file

1. In the toolbar, click **Settings**.
2. Select the .expx file you want to import and click **Open**.
3. Your settings are updated to match the .expx file, and the named setting is now available in the Settings menu.

### ❖ To export a settings file

1. Choose the settings you wish to export from the **Settings** list
2. Select **Acquire Data > Export Settings**.
3. Enter a name for your settings file, select a directory to save the file, and click **Save**.  
The settings file is now saved and ready for future use.

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