GU Value Software Release Notes

Version 1.0

(View the version number of the GU Value software in the Programs and Features control panel.)

We recommend that users keep these *Release Notes* for reference as they become familiar with the software.

Introduction

New Features

The GU Value software, together with the 32 Karat software, analyzes data collected on the PA 800 Plus Pharmaceutical Analysis System from samples labeled with the Fast Glycan Labeling and Analysis Kit.

For more information about using the GU Value software, refer to the *Fast Glycan Labeling and Analysis Kit Application Guide*.

Install and Configure the Software

Note: The GU Value software is already installed on PA 800 Plus systems with 32 Karat software version 10.3 or later. For earlier versions of the 32 Karat software, use this document to download, install, and configure the software.

Required Software

The GU Value software requires the 32 Karat software version 10.1 build 44 or later.

Microsoft .NET Framework version 4.0 is also required. An installer for the .NET Framework is included with the GU Value software. Refer to Install the GU Value Software.

Download Software and Other Required Files

If the PA 800 Plus controller is not connected to the internet, a USB flash drive is required to transfer the files after they are downloaded.

1. Log on to a computer with internet access.

   - If the PA 800 Plus controller has internet access, log on to it.
   - If the PA 800 Plus controller does not have internet access, log on to a different computer with access.

2. Download the application guide from the SCIEX website. This guide gives instructions for sample preparation, data acquisition, and data analysis.
   a. Go to sciex.com.
   b. Click **Products > Capillary Electrophoresis Instruments > PA 800 Plus Pharmaceutical Analysis System**.
   c. Click **Resources** and then, in the **Filter by Type** list, select **Manuals**.
   d. Click **Fast Glycan Labeling and Analysis Kit Application Guide** to download the guide.
3. Download the installer from the SCIEX website.
   a. Click **Products > Capillary Electrophoresis Instruments > PA 800 Plus Pharmaceutical Analysis System**.
   b. Scroll down to **Learning Center** and then click **Fast Glycan Software**.
   c. Fill out the form and then click **Submit**.
   d. Follow the on-screen instructions to download the GUValueSoftware.zip file.
4. If the controller is not connected to the internet, copy the GUValueSoftware.zip file to a USB flash drive and then copy it from the flash drive to the controller.
5. On the controller, double-click **GUValueSoftware.zip**. A password is required to unzip the file.

   Four files are created:

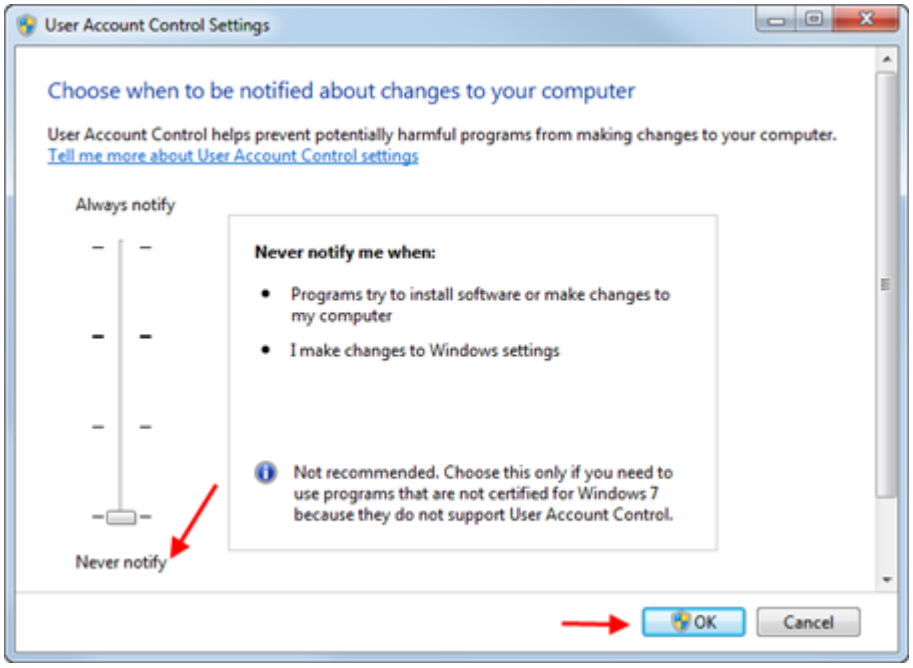
   - GUValueSoftware.exe, the installer for the GU Value software
   - dotNetFx40_Client_x86_x64.exe, the installer for Microsoft .NET Framework. If the controller already has the correct version of the Framework, this will not be required.
   - SciexPDF.exe, the installer for the Sciex PDF Writer software
   - FastGlycanData.exe, the installer for the methods, template, and example data files.

Change the User Account Control (UAC) Settings

The GU Value software requires the notification to be set to Never notify.

1. Log on to the controller as a Microsoft Windows user with Administrator privileges.
2. Click **Start > Control Panel.**
3. Click **User Accounts > Change User Account Control settings.**
4. On the User Account Control Settings dialog, move the slider bar to **Never notify** and then click **OK**.

Figure 1 User Account Control Settings Dialog



The controller prompts to restart.

5. Click the message to restart the controller.

Install the GU Value Software

1. Make sure the required software is installed on the PA 800 Plus controller. Refer to Required Software.
2. If not already present, download GUValueSoftware.zip from the SCIEX website and unzip it. Refer to Download Software and Other Required Files.
3. Log on to the controller as a Microsoft Windows user with Administrator privileges.
4. Double-click **GUValueSoftware.exe** and then follow the on-screen instructions. When prompted, accept the default values.

   The installer will make sure that the .NET Framework version 4.0 is installed on the controller and then install the GU Value software. If it is not installed, the behavior depends on whether the controller has internet access:

   - For a controller with access, it downloads and installs the .NET Framework from the Microsoft website and then continues with the GU Value software installation.

- For a controller without internet access, the GU Value software displays a message and halts the installation. Double-click **dotNetFx40_Client_x86_x64.exe** and then follow the on-screen instructions. When prompted, accept the default values. If prompted, restart the controller. After the .NET Framework is installed, double-click **GUValueSoftware.exe** to install the GU Value software.

The GU Value software is installed and short cuts to the *Release Notes* (this document) and the Software Qualification are placed on the desktop.

Install and Configure the Sciex PDF Writer Software

The Sciex PDF Writer software is required to create the final report with information about the identified glycans. After the Sciex PDF Writer software is installed, "Sciex PDF" will appear as a printer in the Print dialog for all software installed on the controller.

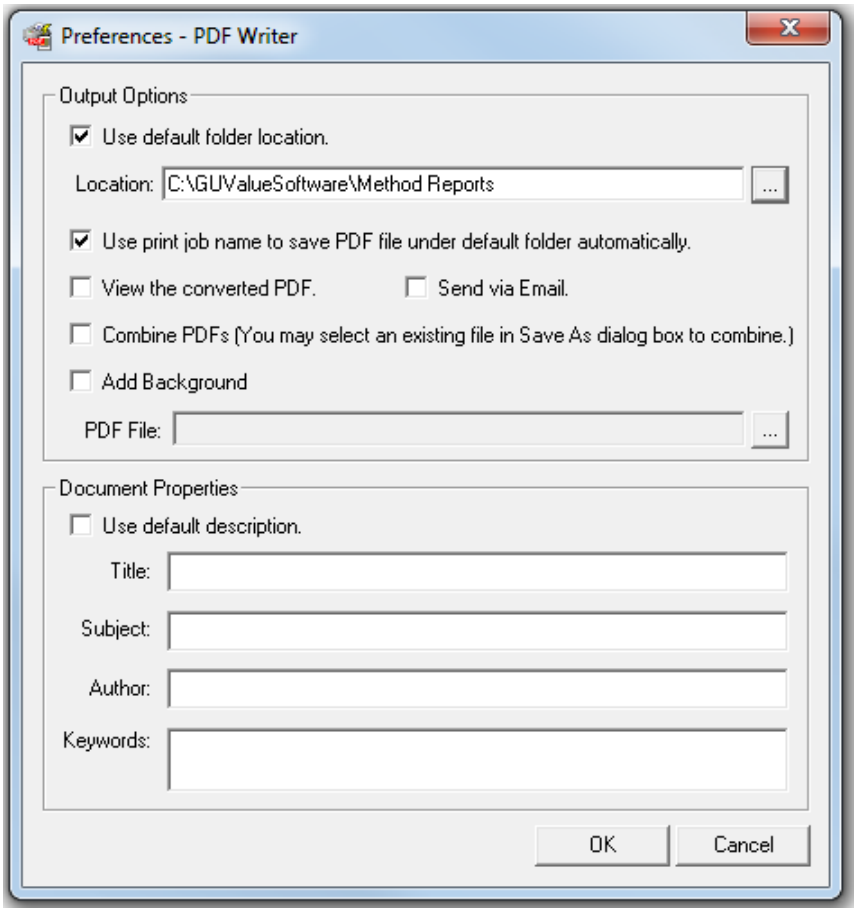
Note: We recommend that the Sciex PDF Writer software only be used with the GU Value software to analyze samples prepared with the Fast Glycan Labeling and Analysis Kit.

1. Double-click **SciexPDF.exe** and then follow the on-screen instructions. When prompted, accept the default values.

   When the installation is complete, a web browser opens displaying instructions for using the software.

2. Set the preferences for the Sciex PDF Writer software.
   a. From the **Start** menu in Windows Explorer, click **All Programs > Sciex PDF > Preferences**.
   b. Make sure the **Use default folder location** check box is selected.
   c. Click **...** (Browse) and select C:\GUValueSoftware\Method Reports.
   d. Make sure the **Use print job name to save PDF file under default folder automatically** check box is selected.

Figure 2 Default Folder Location



3. Click **OK** in the Preferences - PDF Writer dialog to save the changes and close the dialog.

Configure the 32 Karat Software

The 32 Karat software must be configured with a Fast Glycan instrument and project and then the printer for the new instrument must be configured.

Note: The following instructions assume that the LIF detector is already installed in the PA 800 Plus system. If not, first install the LIF detector and then continue with the following instructions.

1. Start the 32 Karat software and log in as an administrator.
2. Create a Fast Glycan instrument using Auto Configuration. For detailed instructions refer to the *PA 800 Plus Pharmaceutical Analysis System Methods Development Guide*.

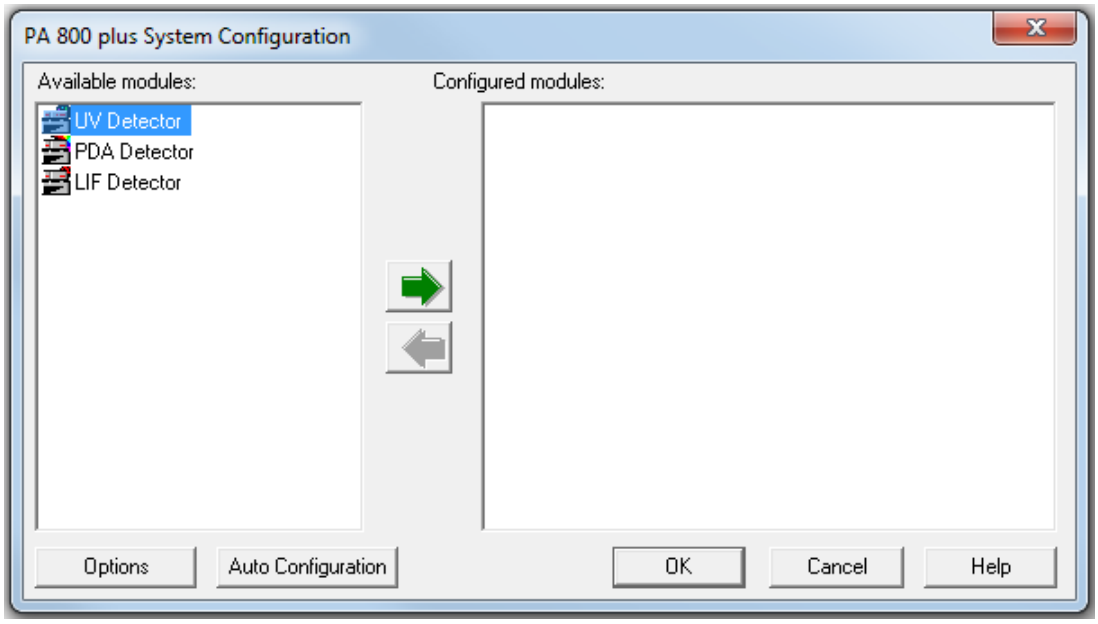
a. Install a cartridge, a 48-well sample tray in the inlet position, two buffer trays, and then close the sample door.

b. In the 32 Karat Software Enterprise window, click **File > New > Instrument**.

c. In the **Instrument Configuration** dialog, type **Fast Glycan** in the **Name** field and then click **Configure**.

The PA 800 plus System Configuration dialog opens.

Figure 3 PA 800 plus System Configuration Dialog



d. Click **Auto Configuration**. When the 32 Karat Software GPIB Auto Configuration dialog opens, click **OK**.

e. Click **OK** in the **PA 800 plus System Configuration** dialog.

The Fast Glycan instrument icon appears in the 32 Karat Software Enterprise window.

3. In the **32 Karat Software Enterprise** window, click **Tools > System Administration Wizard** and create a Fast Glycan project.

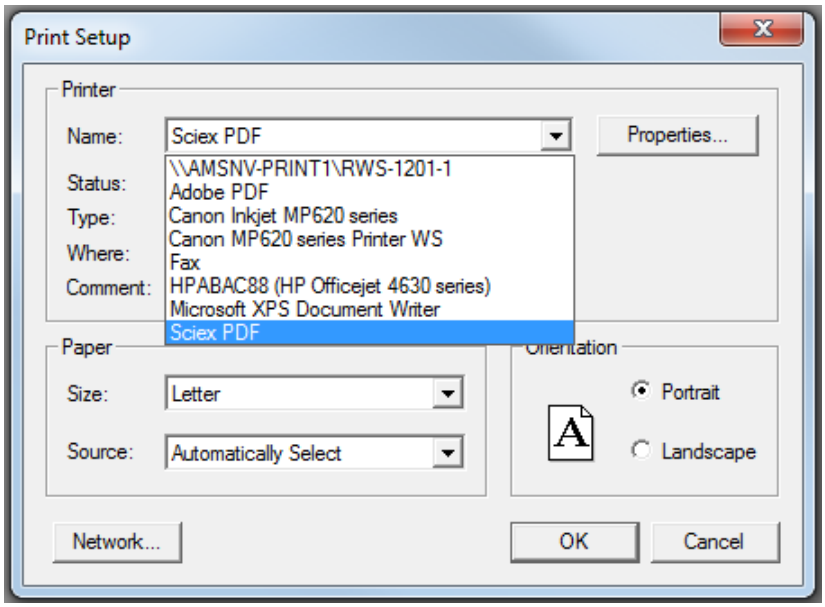
4. Configure the printer for the Fast Glycan instrument.

a. Double-click the Fast Glycan instrument icon in the **32 Karat Software Enterprise** window.

b. Click **File > Print Setup**.

c. Click **Sciex PDF** in the **Name** list and then click **OK**.

Figure 4 Print Setup Dialog



5. (Optional) If your laboratory uses offline instruments for method editing and data analysis, create another Fast Glycan instrument and project for offline use. Make sure to configure the printer in the offline instrument to use the Sciex PDF Writer software.

Install the Methods, Template, and Example Data

- Double-click **FastGlycanData.exe** and then follow the instructions on the screen.

  The files are copied to the correct folders in the Fast Glycan project. This is the last step of the installation and configuration.

Verify the Installation

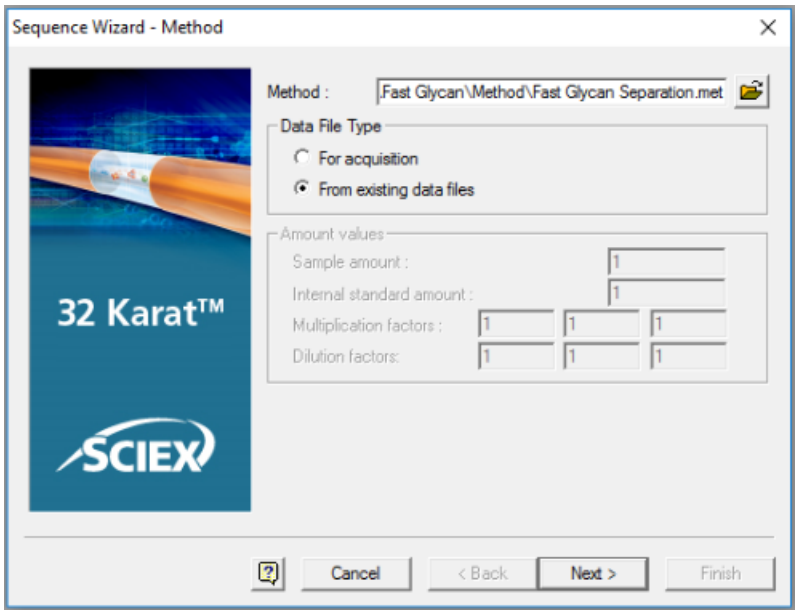
Use the following steps to analyze the example data files. If the data can be analyzed, the GU Value software is correctly installed and the PA 800 Plus system and 32 Karat software are configured correctly.

1. Open the 32 Karat software.
2. Right-click the **Fast Glycan** instrument and select **Open Offline** to open it.
3. Create a sequence with the Sequence Wizard.
   a. Click **File > Sequence > Sequence Wizard**.

b. Click (Browse) and select the **Fast Glycan Separation** method.

c. Click the **From existing data files** radio button.

Figure 5 Method Page



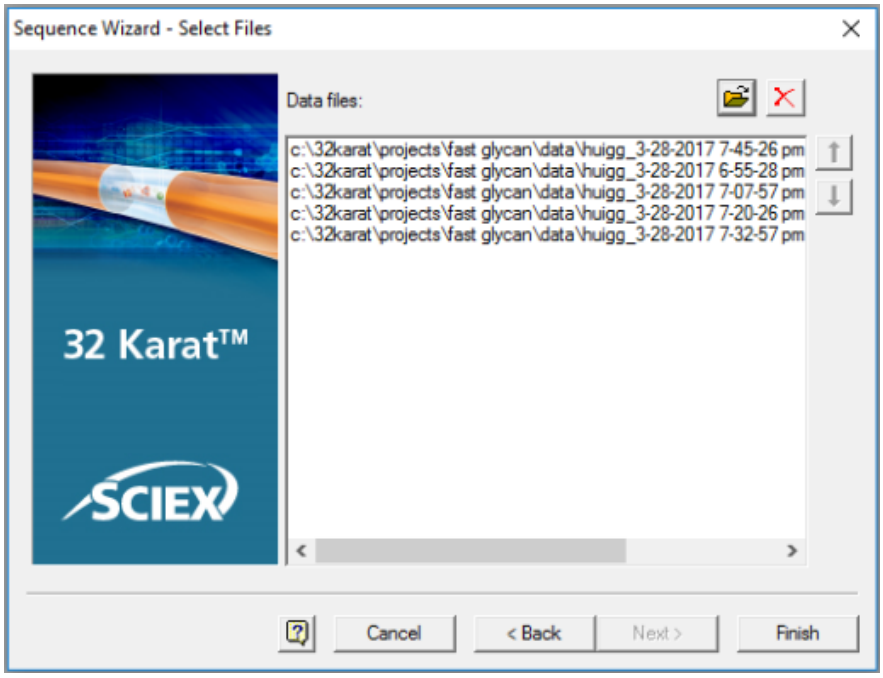
d. Click **Next**.

e. In the **Select Files** page, click (Browse) and then navigate to the location of the data files.

f. For each file to be analyzed, click the file in the upper list and then click **Add**. When all the files to be analyzed are listed in the Data Files table, click **Open**.

The file names appear in the list in the Select Files page.

Figure 6 Select Files Page



g. Click **Finish**.

The wizard closes and a window with the sequence opens.

4. Click the **Run Type** column heading to select the column and then right-click and select **Set Run Types > Summary**

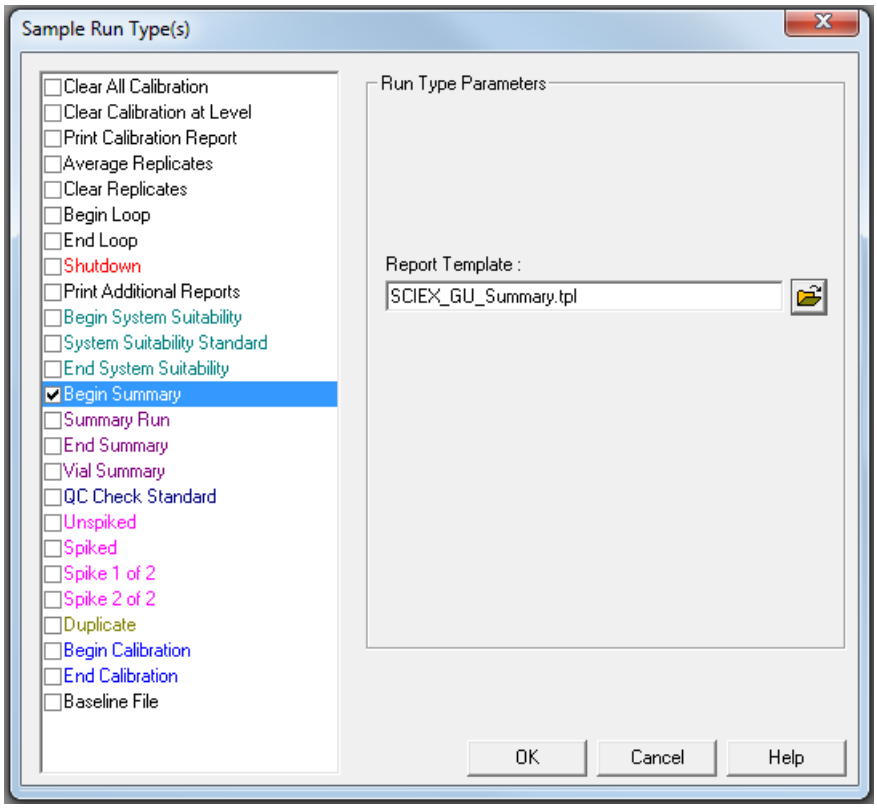
The Run Type column updates to show "Summary Begin" in the first row, "Summary End" in the last row, and "Summary Run" in all of the other rows.

5. Click

in the first row of the sequence to open the Sample Run Type(s) dialog.

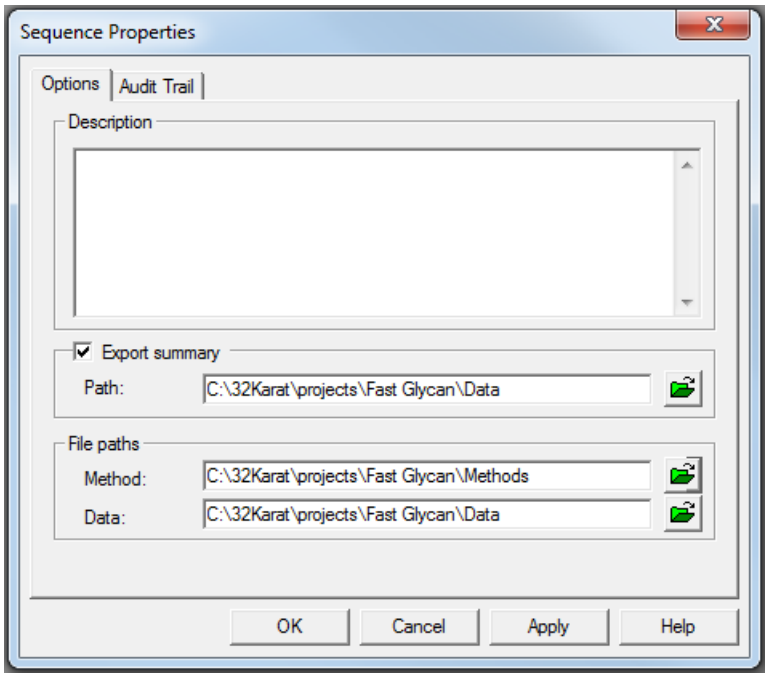
6. Make sure that the **Begin Summary** check box is selected and then click **OK** to close the dialog.

Figure 7 Sample Run Type(s) Dialog



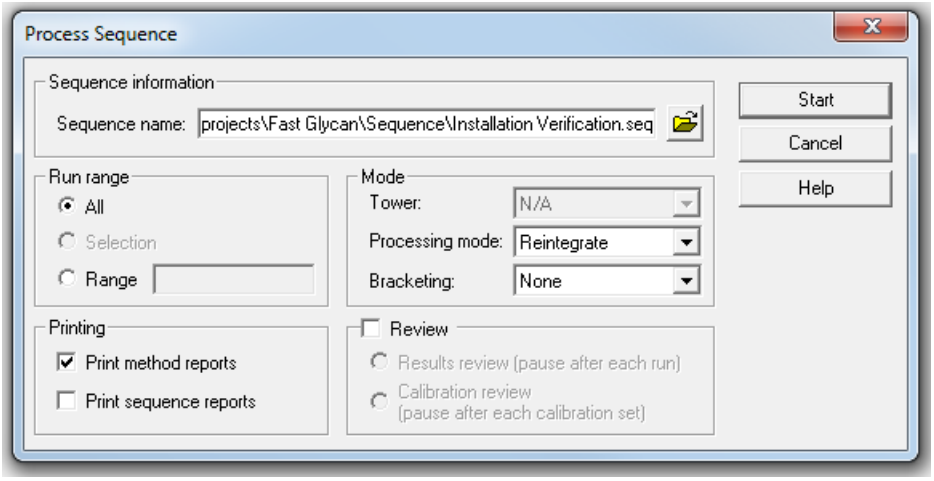
7. Click **Sequence > Properties** to open the Sequence Properties dialog.
8. Select **Export summary** and then click (Browse) and select the folder to save the results.

Figure 8 Sequence Properties Dialog



9. Click **File > Sequence > Save As**, type **Installation Verification** in the **File name** field, and then click **Save**.
10. Click **Sequence > Process** to open the Process Sequence dialog.
11. Select the **Print method reports** check box and then click **Start**.

Figure 9 Process Sequence Dialog



The 32 Karat software processes the sequence, integrates the peaks, and then identifies the glycans. If there are many samples, the analysis can take some time. When the analysis is finished, several reports in PDF format are created:

- The GU Value Report, which opens automatically at the end of the analysis. This report is saved to the Data folder in the Sequence Properties dialog box and is named GU Value Report v1.0_MMDDYYYY_HHMMSS.pdf, where "MMDDYYYY" is the date and "HHMMSS" is the time the file was created.
- For each data file in the sequence, a method report. The method report is saved to the folder specified in the Sciex PDF Writer software Preferences dialog. The method reports are part of the GU Value Report.

If these reports are not created, make sure that the Sciex PDF Writer software is installed, the preferences have been set as shown in Figure 1-2, and the printer in the 32 Karat software is correctly configured and then repeat the procedure to verify the installation.

If the reports are still not created, contact SCIEX Technical Support.

Remove the Software

If the software is no longer needed, use the following instructions to remove the GU Value software.

1. Close all programs and then restart the controller.
2. Log on to the controller as a Microsoft Windows user with Administrator privileges.
3. Click **Start > Control Panel > Program and Features**.
4. Click **GU Value Software** and then click **Uninstall**.

The GU Value software is removed. Any reports generated by the software remain on the controller.

5. Click **Sciex PDF** and then click **Uninstall**.

   The Sciex PDF Writer software is removed.

6. Restart the controller to complete the process.

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