

Compass Connector Plugin

The screenshot displays the main window of Diablo EZReporter 4.0. The interface includes a menu bar (File, Tools, Help), a toolbar with icons for Open Data File, Reprocess, Print Report, Save Report, Export, Load Configuration, and Edit Configuration. Below the toolbar are tabs for Sample Results, Parameter Monitor, Results Database, and Sample Processing. The Sample Results tab is active, showing the following sections:

Sample Information:

Sample Information	
Sample Name	GPA 2172-09 Calculation Check at 14.696 psia
Report Date	2015-01-27 12:06:23
EZReporter Configuration File	GPA 2172-09 Calculation Check at 14.696 psia.cfgx

Component Results

Component Name	Norm%	Norm Mol% (Sat.)	Norm Mol% (Wet)	Weight% (Dry)	Weight% (Sat.)	Weight% (Wet)	Gross H (BTU / Ide)
Water	0.0000	1.7447	1.6180	0.0000	1.5538	1.4408	
Helium	0.0300	0.0295	0.0295	0.0059	0.0058	0.0058	

Results Summary

Result	Dry	Sat. (Base)	Sat. (Flowing)
Total Raw Mole% (Dry)	100.0000		
Pressure Base (psia)	14.696		
Temperature Base	60.0		

Errors and Warnings

Type	Source	Description

The status bar at the bottom of the window displays the file path: GPA 2172-09 Calculation Check at 14.696 psia.cfgx.

Diablo Analytical EZReporter Software
EZReporter 4.0 Bruker Compass Connector Plugin

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Compass Connector Plugin

Getting Started

This document describes how to configure the Bruker Compass chromatography data system and the EZReporter 4.0 Compass Connector Plugin so that results can be processed by EZReporter automatically at the end of each run.

Note: The Compass Connector also supports the Varian Galaxie and Scion Compass chromatography data systems that export text results in the same format as the Bruker Compass data system.

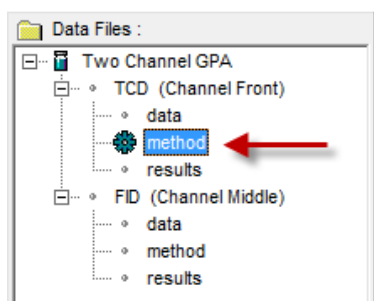
Configure Compass

The Diablo EZReporter software supports automated processing of calibrated, external-standard peak results generated by the Bruker Compass data system. This support is accomplished using the “Export” option of the Compass method settings. This option will export the analysis results to a delimited text file that can then be read and processed by the Bruker Compass Connector Plugin.

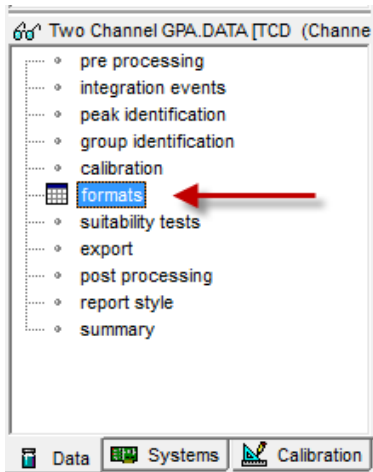
Important: In order to process results from the Bruker Compass data system, you must first make sure that the component names in the EZReporter component settings table match the peak names in the Compass calibration tables. For example, if a compound is named "Hexane" in the Compass calibration table, it must also be entered as "Hexane" in the component settings table (not "n-Hexane", or "nC6").

Configure Compass for Data Export

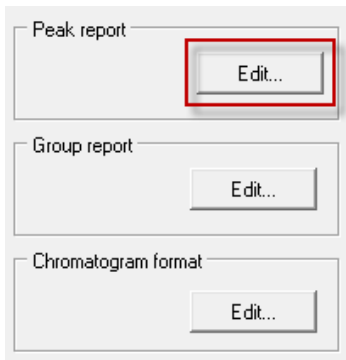
1. Select "Method" for the first Detector Channel (top of the Data Files tree) in the chromatogram or method you want to send results automatically to EZReporter:



2. Select "Formats" from the Method tree:

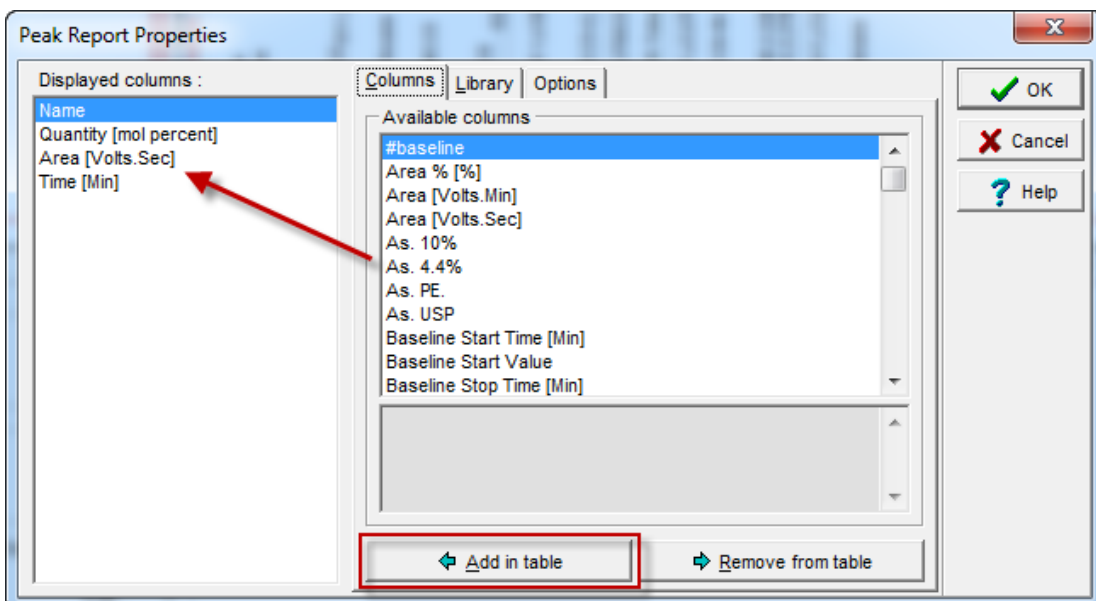


3. Click "Edit" from "Peak report":

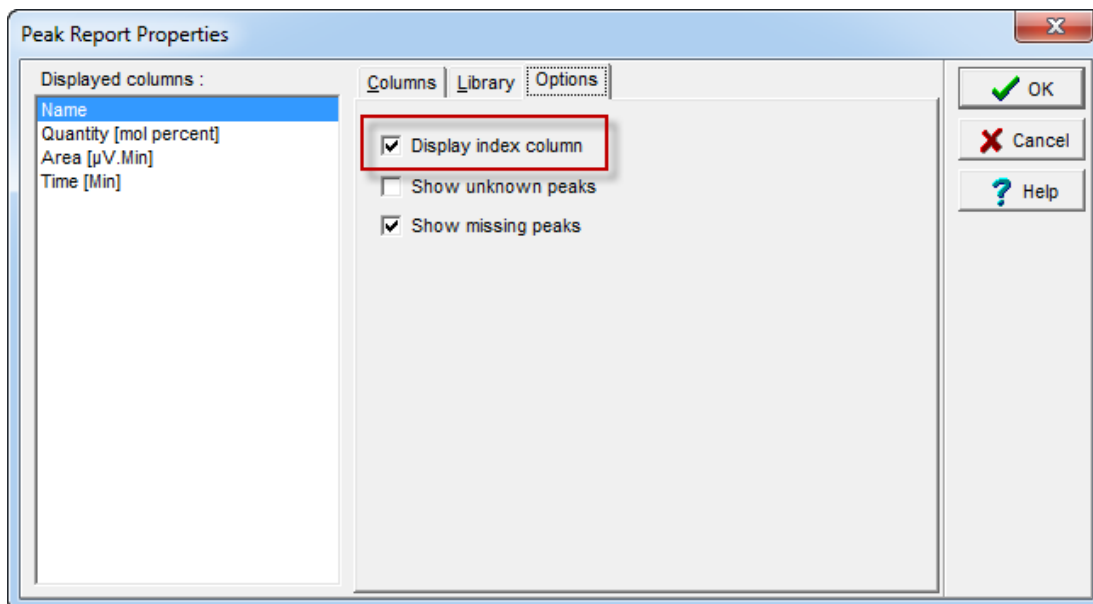


4. From the "Available columns" select in this order: Name, Quantity, Area, Time and then click "Add in table" so they are listed in the order shown under "Displayed columns"

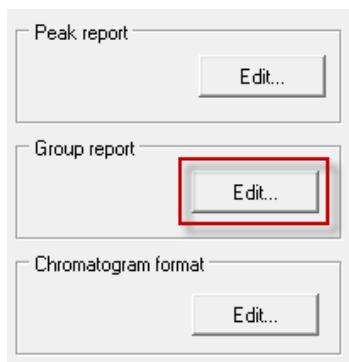
IMPORTANT: The Displayed Columns must be in the order shown, or the results won't be imported into the proper EZReporter result fields.



5. Still in the Peak Report Properties window, switch to the “Options” tab and make sure “Display index column” is checked:



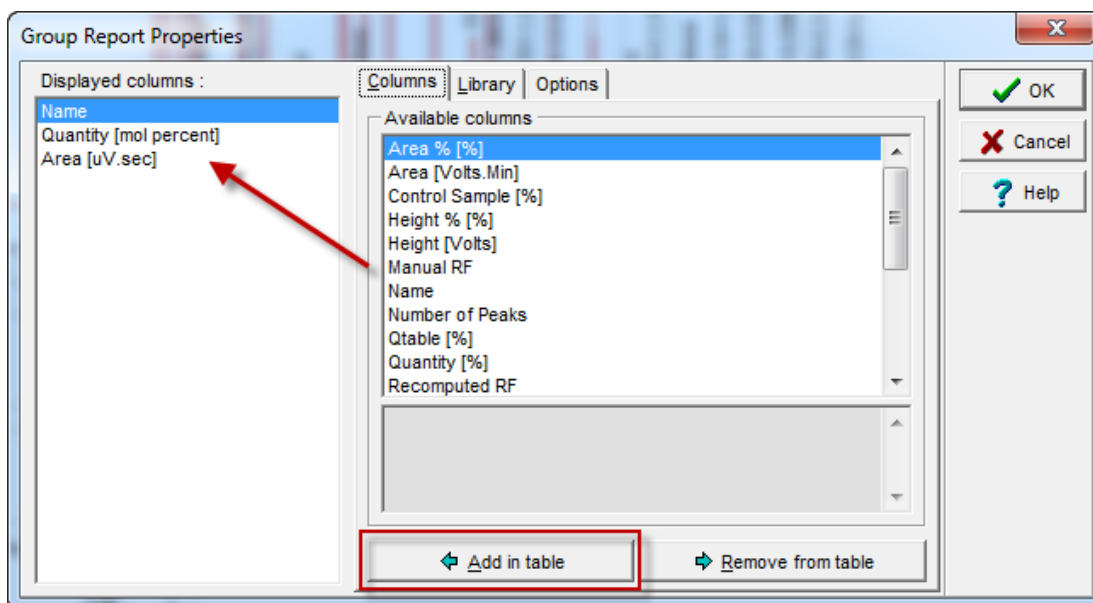
6. If you have groups in your method, click "Edit" from "Group report"



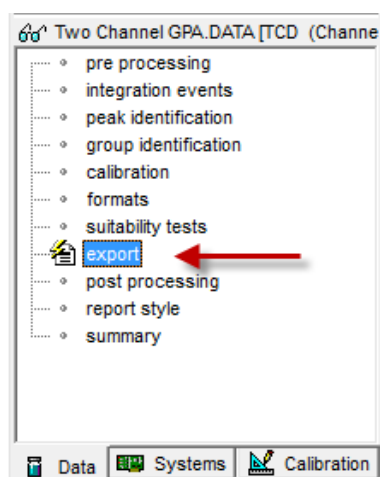
7. From the "Available columns" select in this order: Name, Quantity, Area and then click "Add in table" so they are listed in the order shown under "Displayed columns"

IMPORTANT: The Displayed Columns must be in the order shown, or the results won't be imported into the proper EZReporter result fields.

IMPORTANT: Make sure “Display index column” is also checked in the “Options” tab as described for the Peak Report Properties.



8. Select "export" from the method tree



9. From "Type" select "ASCII" and either a "COMMA" or "TAB" delimiter.

IMPORTANT: If any of your component names include commas, you should select the TAB delimiter.

From "Destination" enter a unique "File name" for this channel, a "Custom" File path, and a "File Ext." of ".TXT". Finally from "Content" check "Peak results", "Group results" (if you have defined one or more groups), and "Variables".

Note: By default the EZReporter Compass connector plugin will monitor the following folder for results:

C:\Users\Public\Documents\Diablo EZReporter\Export

So, you should set the Compass export "File Path" to this folder.

If you would like to use a different export folder, make sure to update the "Export Folder to Monitor" in the Compass connector settings. You will also need to make sure that the logged in user has read/write/delete permissions for the folder.

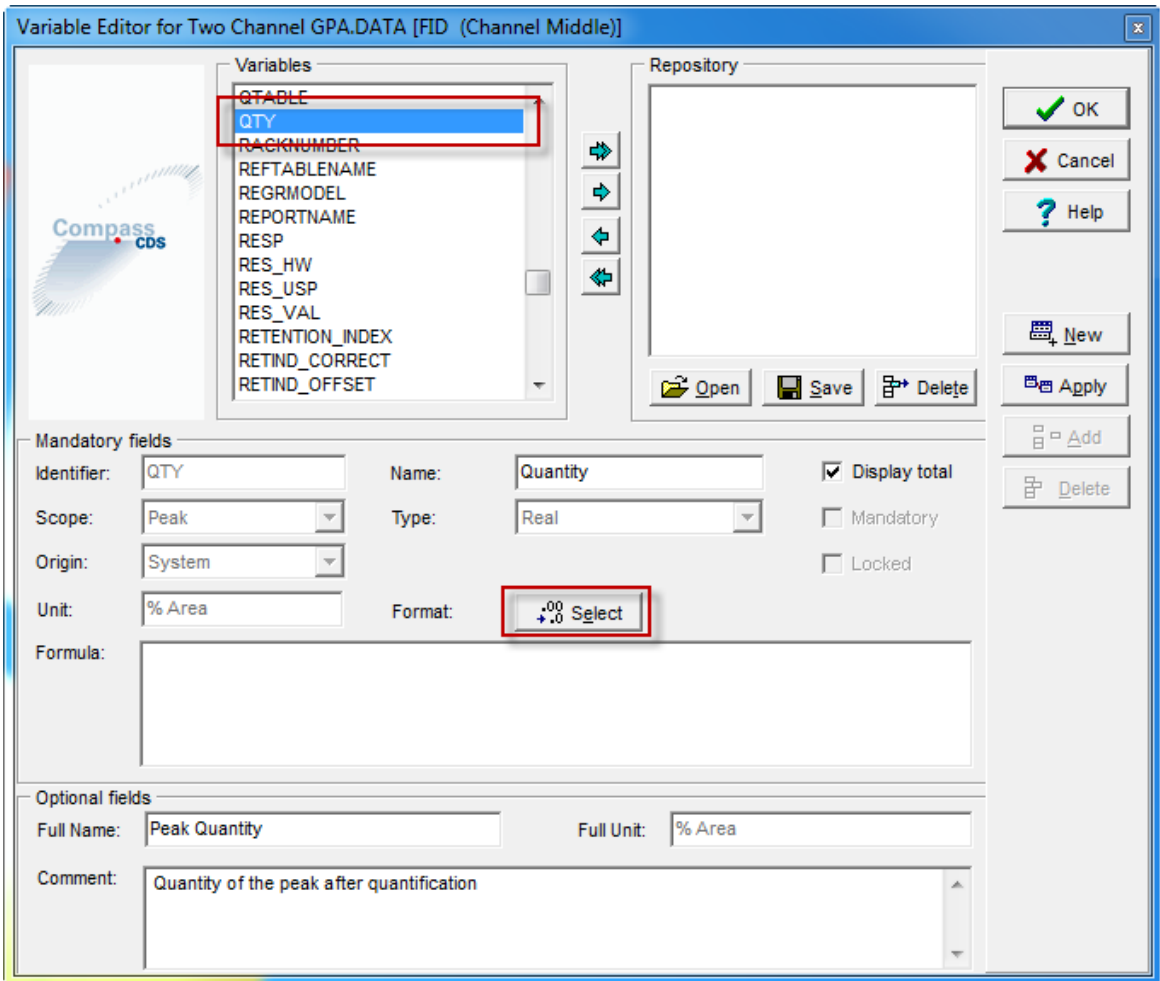
The image shows the EZReporter export settings dialog box. It is divided into three main sections: Type, Destination, and Content. In the Type section, 'ASCII' is selected, and the 'Field delimiter' is set to 'TAB'. In the Destination section, the 'File name' is 'EZReporter-TCD', the 'File path' is 'C:\Users\Public\Documents\Diablo EZReporte', and the 'File ext.' is '.TXT'. In the Content section, the '2nd' option is selected with 'Peak results', the '3rd' option is selected with 'Group results', and the '4th' option is selected with 'Variables'.

10. **Optional:** By default, Compass will export component amounts with 2 decimal places of precision (1.23). If you want EZReporter to generate component amounts with more than 2 decimal places, you will need to follow the instructions below:

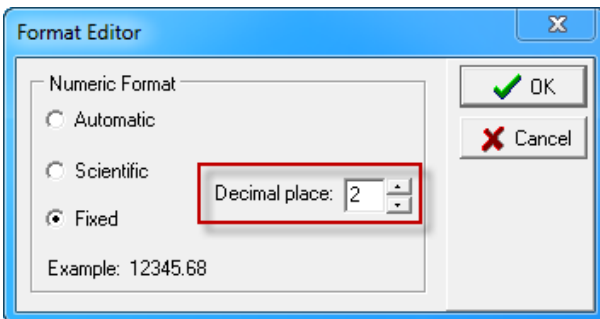
In the “Destination” section of the Export settings, click the “Edit Variables” button:

This image is a close-up of the 'Destination' section of the EZReporter export settings dialog box. It shows the 'File name' field set to 'EZReporter-FID', the 'File path' field set to 'C:\Users\Public\Documents\Diablo EZReporte', and the 'File ext.' field set to '.TXT'. The 'Edit variables...' button is highlighted with a red box.

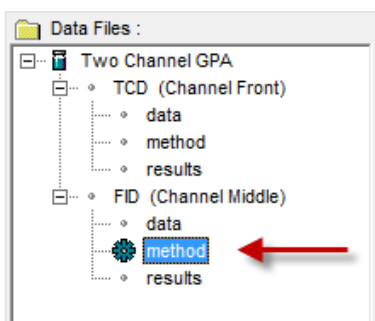
In the Variable Editor, scroll the list of variables until you find and select the “QTY” variable, then click the Format “Select” button:



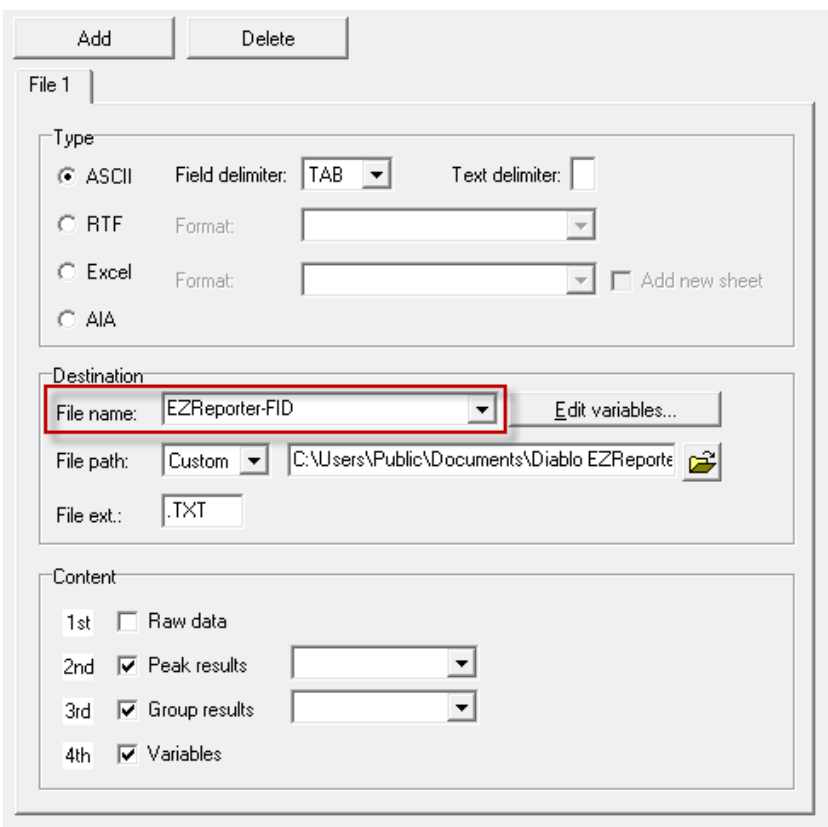
Finally, select the number of decimal places you would like to report for the component results:



11. Repeat steps 2-9 for all remaining detector channels by clicking "method" in the each channel's section of the Data Files tree.

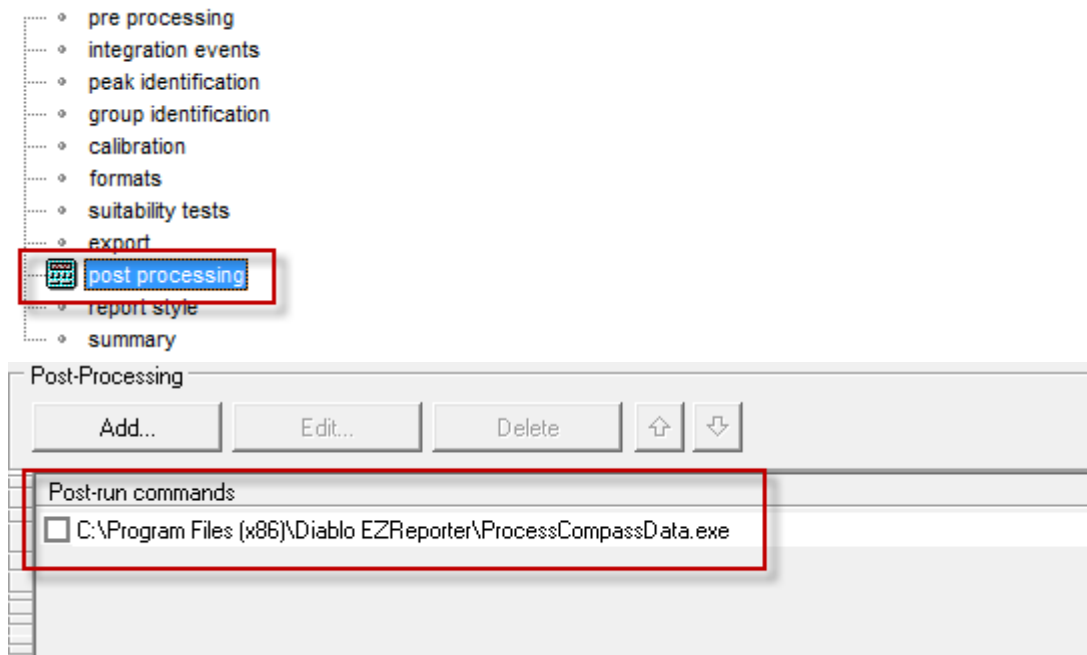


- All settings should be the same as above for each channel with the exception of the Export Destination File name, which must be different than the filename used for any other channel (see example below).



- IMPORTANT:** The following only applies if you had previously used this method with EZReporter 3.0.

If your method was previously set up to export results to EZReporter 3.0, you will need to disable (uncheck) the Post-run command calling the EZReporter Compass Connector in the Post Processing section of the method:

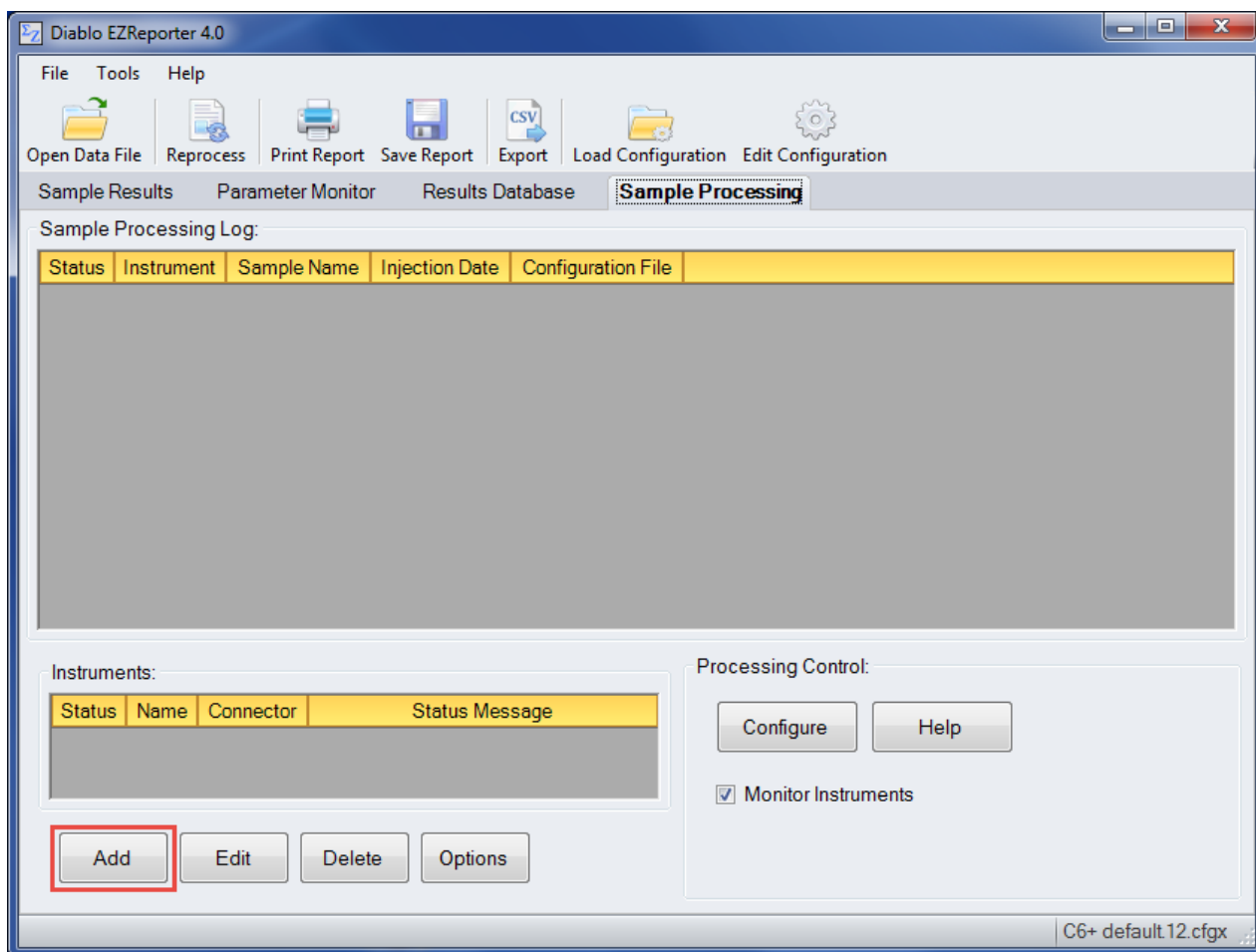


14. Make sure to save your method.

Configure the EZReporter Instrument

Add an Instrument

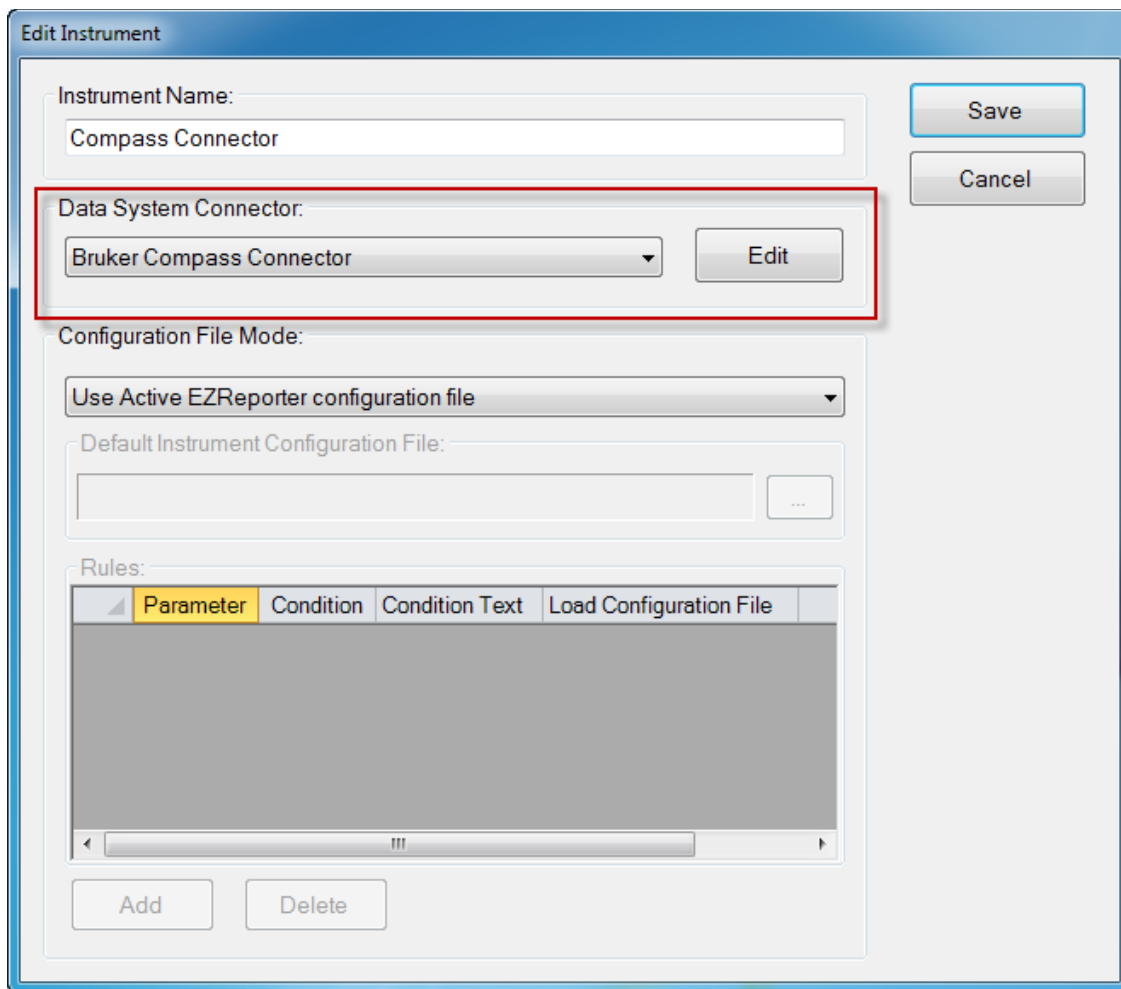
First, you must add and configure an instrument. Switch to the “Sample Processing” tab of the main window, and click the “Add” button below the instruments table.



Select the Data System Connector

In order to process results from your chromatography data system, you must select the Data System Connector for the data system you are using, and then “Edit” the connector to select and apply any connector-specific settings. In this case, select the “Bruker Compass Connector”.

IMPORTANT: The data system connectors available for you to select will be dependent on which version of the installation program you used to install the EZReporter 4.0 software. Make sure that you download the installer version for the manufacturer of the chromatography data system you are using to control your gas chromatograph.



Configure the Connector

The only setting you typically need to set for the Compass Connector is the “Export Folder to Monitor”. You must choose the same folder that you specify as the Destination File Path in the Compass Export window as described previously.



Note: If you are using a Compass method that was previously configured to export to the folder, “C:\Temp\EZReports”, you can continue to use that folder by selecting it as described above.

Other Settings

These settings should not need to be changed in a typical installation.

Result Polling Interval: This is the interval in milliseconds at which the connector will check the export folder for new text files exported from Compass. The default value of 2000 milliseconds should be correct for most situations.

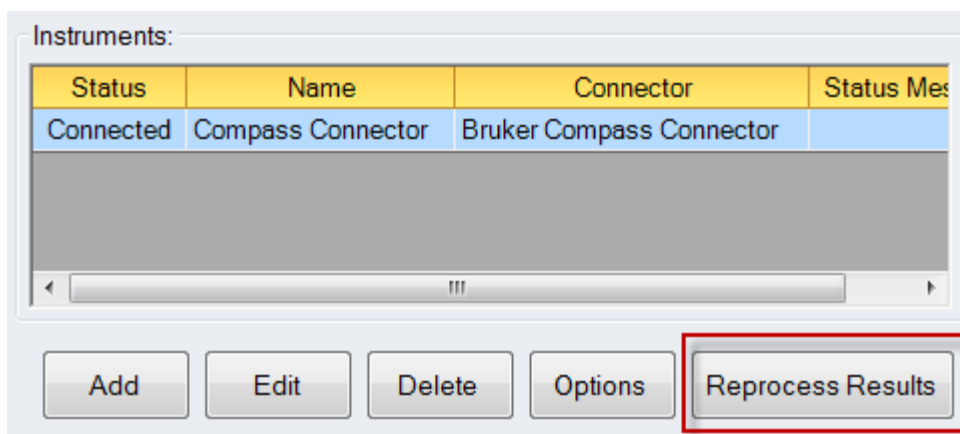
Processing Delay: After finding new text files in the export folder, the connector will wait for this period in milliseconds before processing results. If you have a multi-channel GC, and for some reason Compass is slow to export results for some of the detector channels, then you can increase the delay time to allow all the text files to be generated before processing results. The default value of 2000 milliseconds should be correct for most situations.

Reprocess Results

If your data file contains results from only a **single** detector channel/chromatogram, then you can simply use the Compass “Reprocess” window (click the menu option, “Processing > Reprocess”) to send the results for that channel to EZReporter for processing.

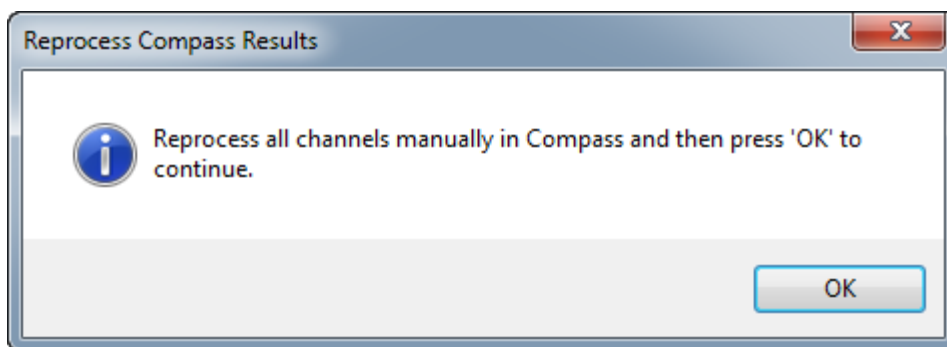
However, if your data file contains results from **2 or more** detector channels/chromatograms, then you should follow these steps:

1. Select the Compass Connector instrument in the instrument table. The “Reprocess Results” button should be displayed at the bottom of the instrument table.

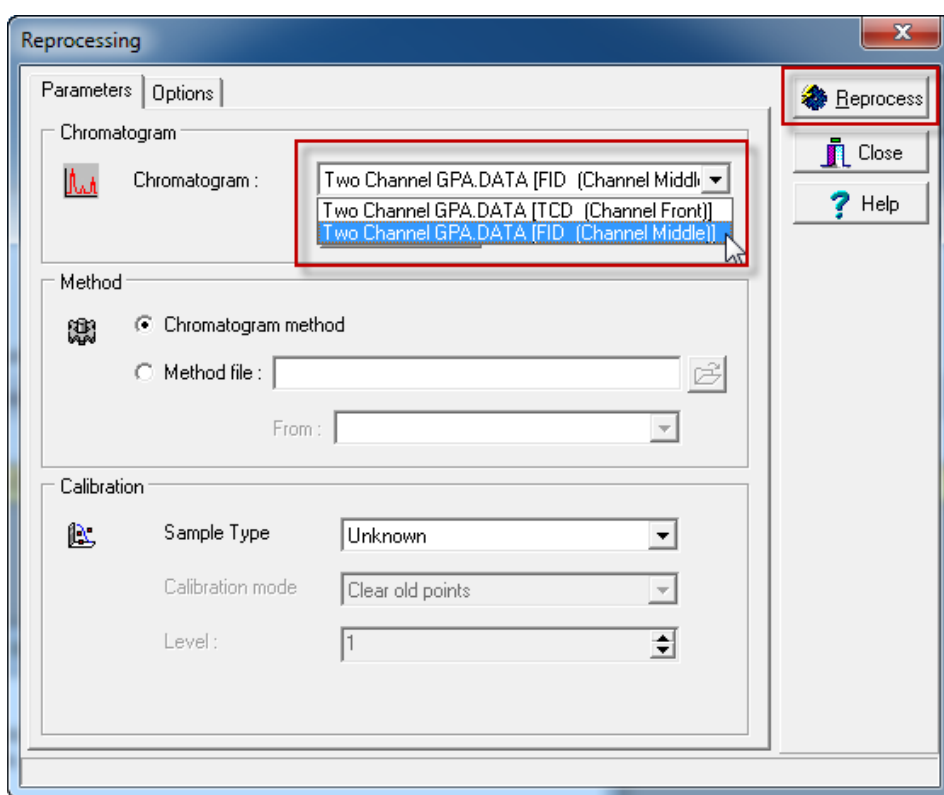


2. Click the “Reprocess Results’ button.

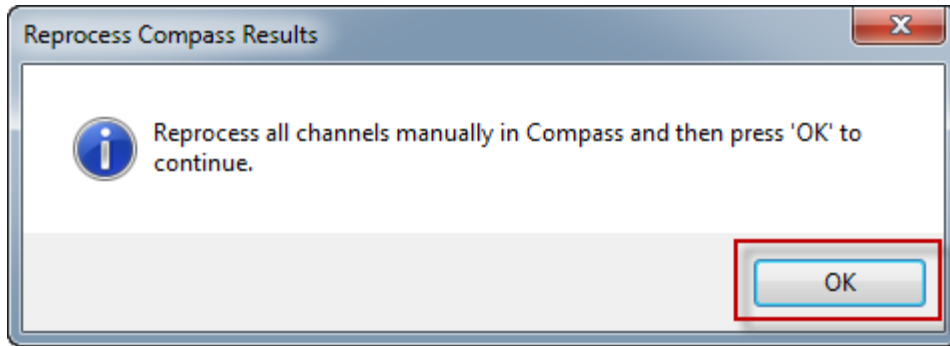
IMPORTANT: Leave the “Reprocess Compass Results” message box open until after you have reprocessed all channels in Compass.



3. Reprocess all channels from the data file in Compass by clicking the menu option, “Processing > Reprocess” and then selecting and reprocessing each chromatogram listed in the “Chromatogram” list box:



4. After reprocessing all channels in the data file, click the “OK” button on the “Reprocess Compass Results” message box displayed in EZReporter:



The Compass Connector will detect and process the text files generated from each channel and add a new result to the Sample Table for processing.

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