



GC/MS Translator

Quick Start



Agilent Technologies

Notices

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About this book...

This guide walks you through the process of collecting sample data with the GC/MS ChemStation, translating it into the MassHunter format, and analyzing it in MassHunter Quantitative Analysis. Also included is a procedure for converting a ChemStation data analysis method to the MassHunter format.

One of the primary difference between the GC/MS ChemStation and MassHunter Quantitative Analysis, is how data analysis is done.

- In the GC/MS ChemStation, each sample data file is analyzed individually.
- Conversely, in MassHunter, related data files are saved in a single folder, called a batch folder, then, each file in that batch is analyzed together using a single data analysis method.

This allows for extremely flexible side-by-side comparison of chromatograms from the analyzed files.

In this guide you will learn how to:

- Translate a GC/MS ChemStation data analysis method into a MassHunter Data Analysis method.
- Define a post-run macro in the ChemStation method that will automatically translate your sample data files into a MassHunter format.
- Prepare your GC/MS ChemStation Sample Log Table and methods with a conversion to MassHunter in mind.
- Create a batch in MassHunter with the translated GC/MS ChemStation sample data files and method.
- Analyze the data in MassHunter.

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1 Translate a GC/MS ChemStation Quant Method into a MassHunter Method

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Methods that were created by the GC/MS ChemStation can be automatically converted for use in MassHunter Quantitative Data Analysis using the MSD ChemStation File Translation software.

Quantitation methods that have been running successfully in the GC/MS ChemStation frequently import and are validated with no errors in MassHunter Quantitative Analysis. When validation issues are found they are automatically identified and are correctable using the MassHunter Quantitative Analysis software.

Some of the most common items that require resolution during the method validation process in MassHunter are:

- Qualifier ratios set to zero
- Calibration level labels that are not identical for all compounds
This would happen if, for example, there were four compounds in a method, and:
 - Compounds A, B, and C each had calibration levels **100, 150, and 200**
 - But, compound D had calibration levels **100, 150, and 175.**
- Missing calibration levels for a compound in the Method table
This would happen if, for example, there were four compounds in a method and:
 - Compounds A, B, and C each had calibration levels **100, 150, and 200**
 - But, compound D had only calibration levels **100, and 150**

If your methods require changes, such as those listed above, the changes may be done in the MassHunter Quantitative Analysis software, or in the GC/MS ChemStation prior to translating the method, whichever you prefer.

Once validated, this MassHunter quantitation method can be run without further modification. However, just like any method originally created in MassHunter, the newly imported method can be further customized to take advantage of the extensive features available in MassHunter Quantitative Analysis.

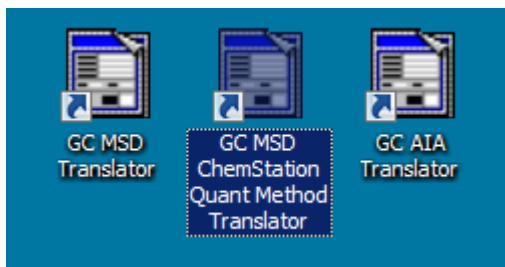


1 Translate a GC/MS ChemStation Quant Method into a MassHunter Method

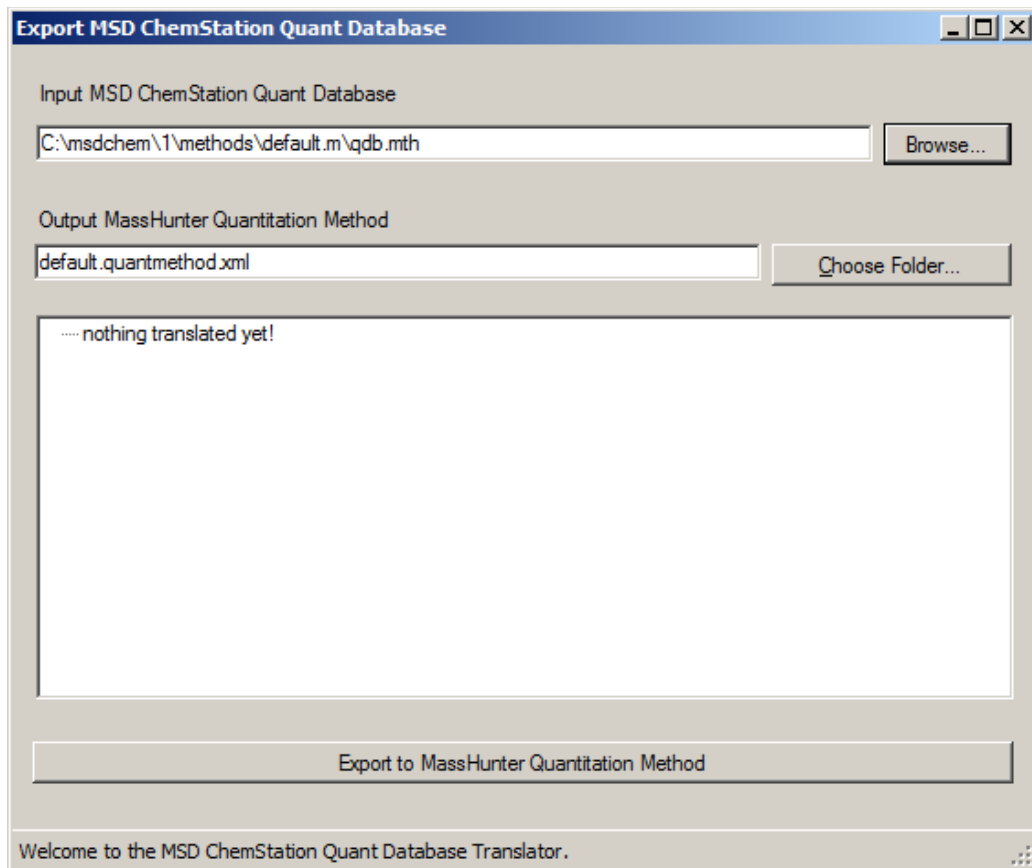
Translate the Method

This procedure requires that the GC/MS ChemStation quantitation method is accessible from the PC where the MSD ChemStation File Translation software is installed.

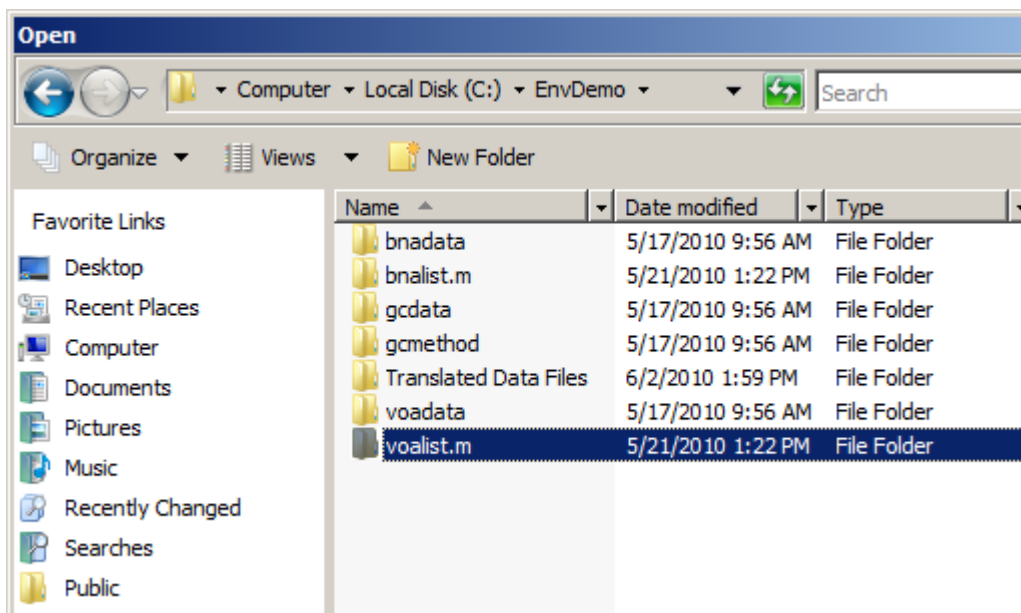
- 1 Open the **MSD ChemStation File Translation** software using its desktop icon or the Windows **Start** menu.



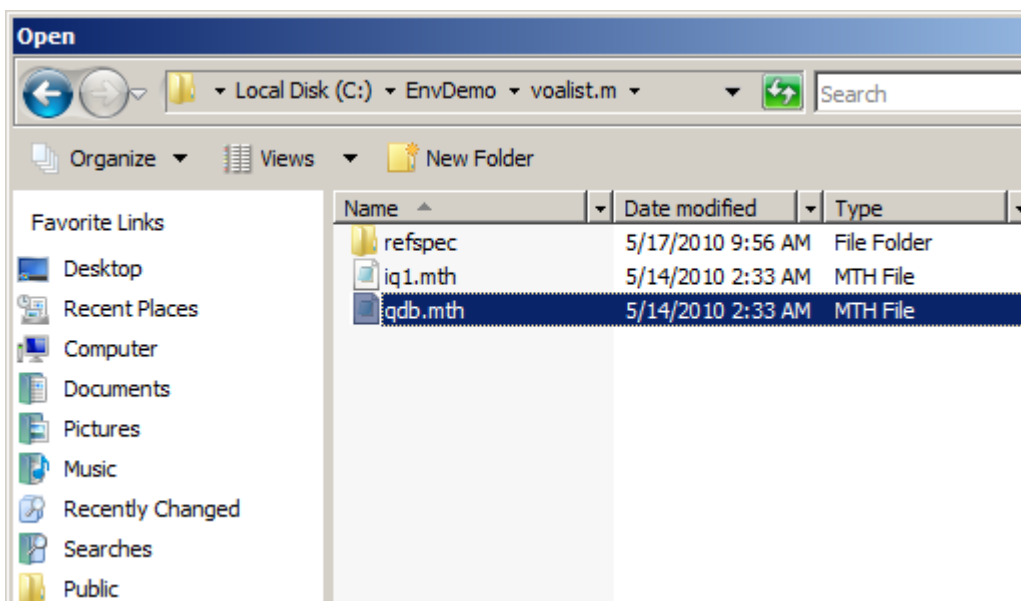
- 2 Click on the **Browse** button. The **Open** dialog displays.



- 3 Navigate to the folder containing the method to be translated, and open it to display the files belonging to this method. For this example we used the demo method supplied with the GC/MS ChemStation, called **voalist.m**

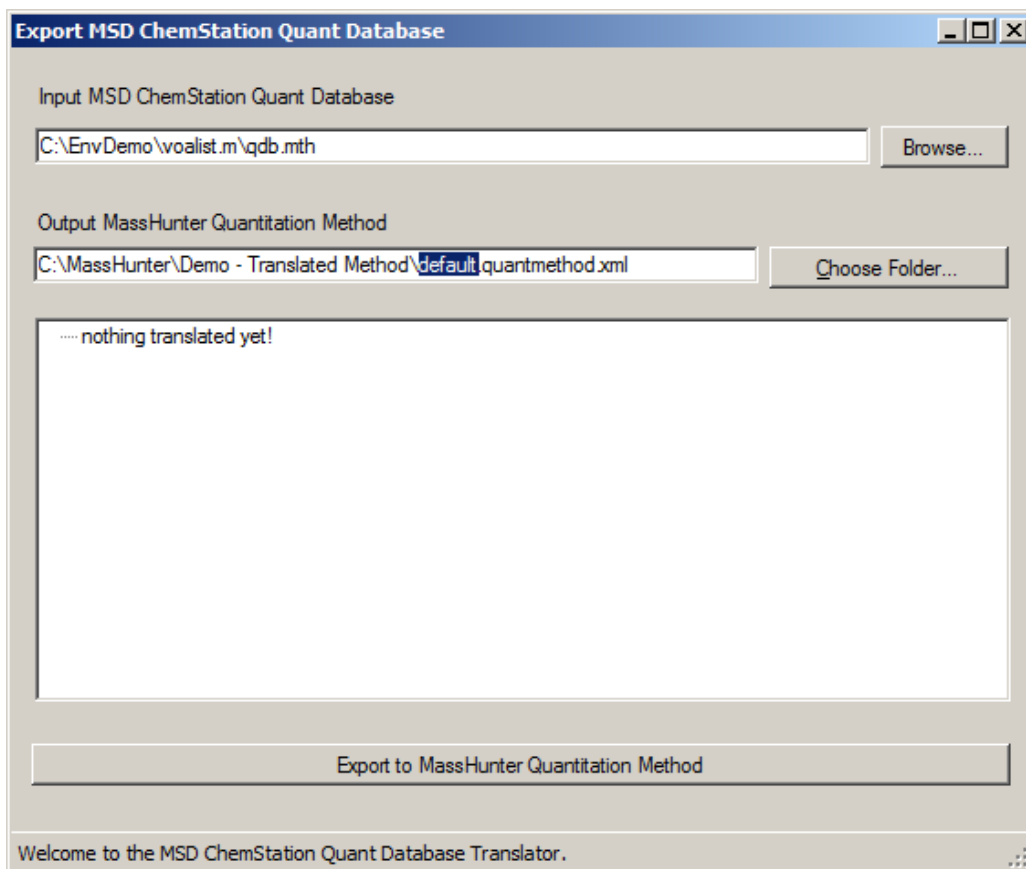


- 4 Select the qdb.mth quantitation database file, and click **Open**. You are returned to the **Export MSD ChemStation Quant Database** window.



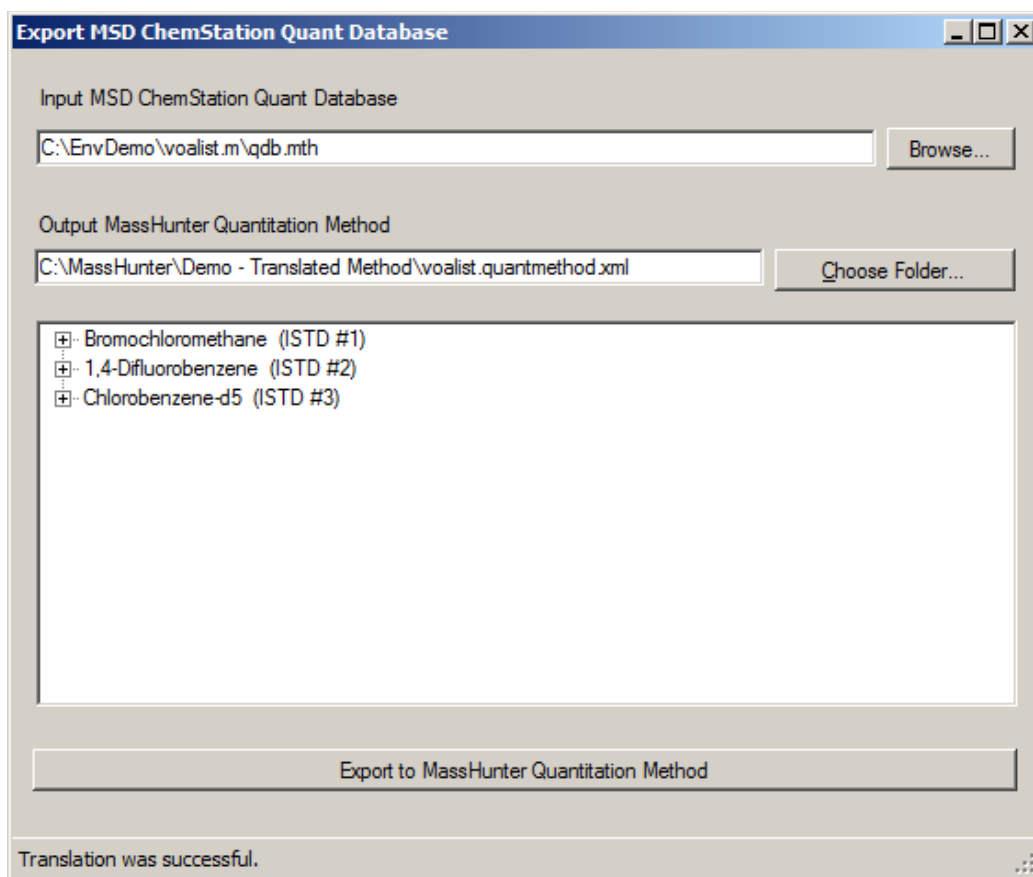
1 Translate a GC/MS ChemStation Quant Method into a MassHunter Method

- 5 Click the **Choose Folder** button in the **Export MSD ChemStation Quant Database** window and navigate to the location where this new MassHunter Quantitative Analysis method will be saved. Replace the default part of the method name with your method name.



- At the bottom of the window, click the **Export to MassHunter Quantitation Method** button. The conversion process begins.

When completed, a message is displayed on the bottom line of the window. The MassHunter quantitative method is saved in the specified location. The conversion result is also displayed in the window as a list of ISTDs from the quantitation method. Expand the listing under each ISTD to see the compounds grouped with this reference standard.



- Exit the **MSD ChemStation File Translation** software.

The next step involves validation of this converted method using MassHunter Quantitative Analysis.

Validate the Converted ChemStation Method in MassHunter

- 1 Open the MassHunter Quantitative Analysis program.
- 2 Select **Method>Open>Open Method from Existing File**. The **Open Method** dialog is displayed.
- 3 Navigate to the location of the translated method that requires validation in MassHunter. Select this method and click **Open**. The **Method Table** is displayed in the MassHunter method editor (ME).

For this example, we previously translated the **voalist** method that is supplied with the ChemStation, and are using that here.

The screenshot shows the Agilent MassHunter Quantitative Analysis software interface. The main window is titled "Agilent MassHunter Quantitative Analysis - Method - [C:\MassHunter\Demo - Translated Method\voalist]". The interface includes a menu bar (File, Edit, View, Analyze, Method, Update, Report, Tools, Help) and a toolbar with icons for Analyze Batch, Layout, and Restore Default Layout. On the left, there is a "Method Tasks" pane with sections for "Method Setup Tasks" (Compound Setup, Retention Time Setup, ISTD Setup, Concentration Setup, Qualifier Setup, Calibration Curve Setup, Globals Setup), "Save / Exit" (Validate, Save, Save As..., Exit), "Manual Setup Tasks", "Outlier Setup Tasks", and "Advanced Tasks". The main area displays the "Method Table" with columns for Name, Data File, Type, Level, Acq. Method File, and Acq. Date-Time. Below the table, three compound entries are shown, each with its own "Qualifier" and "Calibration" tables.

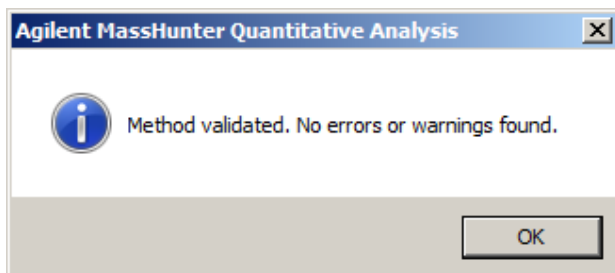
Name	Data File	Type	Level	Acq. Method File	Acq. Date-Time
Sample					
Quantifier					
Name	TS	Scan	Type		
Bromochloromet...	1	Scan	ISTD		
Qualifier					
MZ	Rel. Resp.	Uncertainty			
49.0	270.5	20.0			
130.0	101.3	20.0			
Calibration					
Level	Conc.	Response			
200	50.0000	12438			
150	50.0000	12228			
100	50.0000	12248			
50	50.0000	13418			
20	50.0000	12112			
CC	50.0000	11751			
Quantifier					
Name	TS	Scan	Type		
Chloromethane	1	Scan	Target		
Qualifier					
MZ	Rel. Resp.	Uncertainty			
52.0	32.3	20.0			
Calibration					
Level	Conc.	Response			
200	200.0000	83223			
150	150.0000	62878			
100	100.0000	42588			
50	50.0000	22832			
20	20.0000	8376			
CC	50.0000	22697			
Quantifier					
Name	TS	Scan	Type		
Bromomethane	1	Scan	Target		
Qualifier					

37 Compounds (37 total) 3 ISTD (3 total) VISTA-TYLER-EN\boss

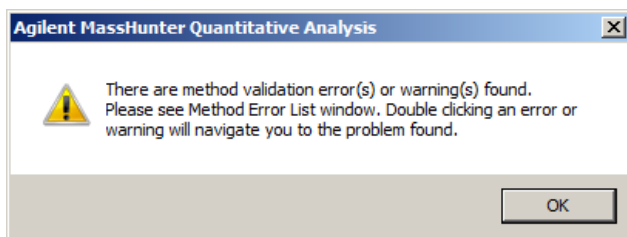
- 4 Scroll through the Method Table and observe how a MassHunter quantitative analysis method is structured for display.

- 5 In the **Method Tasks** area, under **Save / Exit**, select **Validate**. The system displays a prompt giving the **Method Validated** result for the **voalist.m** method.

From here you may use this method to analyze samples in MassHunter.



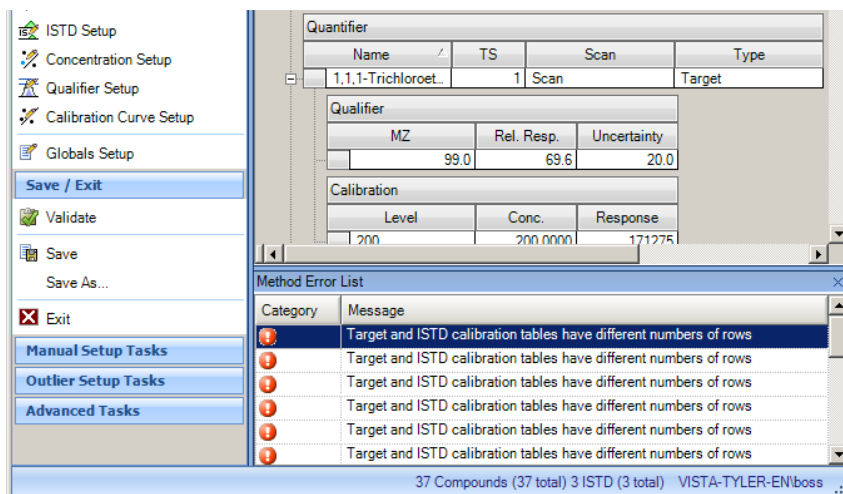
If errors are found in the method, they must be corrected and the method is validated again, until no errors are found.



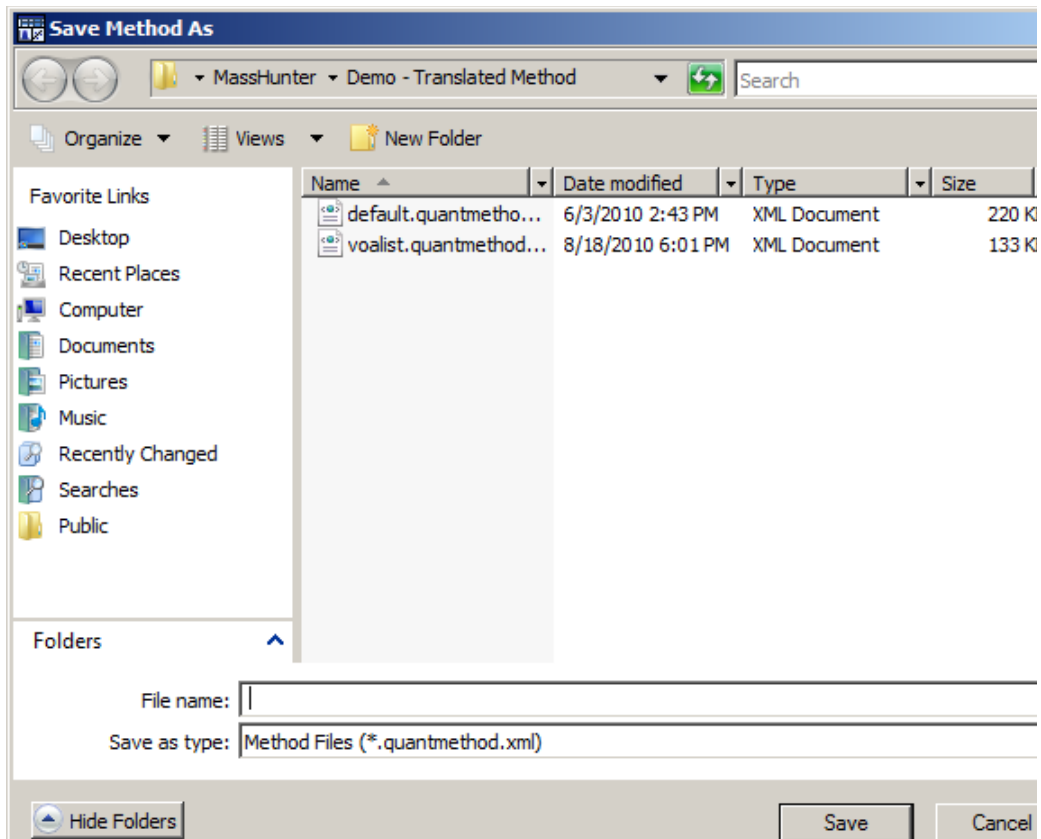
Some of the most common causes of validation errors are:

- Qualifier ratios set to zero
 - Calibration level labels that are not identical for all compounds
This would happen if, for example, there were four compounds in a method, and:
 - Compounds A, B, and C each had calibration levels **100, 150, and 200**
 - But, compound D had calibration levels **100, 150, and 175**.
 - Missing calibration levels for a compound in the Method table
This would happen if, for example, there were four compounds in a method and:
 - Compounds A, B, and C each had calibration levels **100, 150, and 200**
 - But, compound D had only calibration levels **100, and 150**
- 6 Correct each error by first double-clicking on the error line in the **Method List Table**, located in the lower right corner of the ME. This action highlights the area in the ME where a problem exists. Fix the error as necessary, then select **Validate** again.

1 Translate a GC/MS ChemStation Quant Method into a MassHunter Method



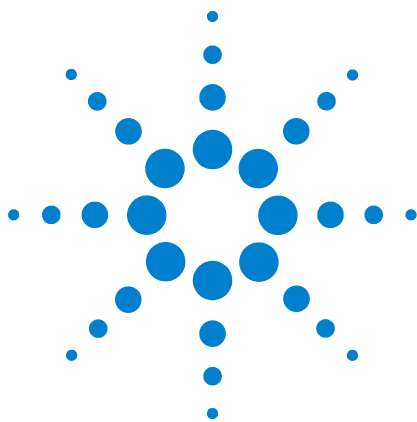
- 7 The entries for the error you fixed are removed from the **Method Error List**. Double-click on the next message in the **Method Error List**, fix the error in the ME, validate, and continue this process until the **Method Error List** is empty.
- 8 When no errors are found, in the **Method Tasks** area, under **Save / Exit**, select **Save As**. The **Method Save As** dialog is displayed..



- 9 Navigate to the folder that you use to store your MassHunter validated methods. Enter a method name in the **File name** field and click **Save**. The file extension *.quantmethod.xml is added by the system.
- 10 In the **Method Tasks** area, under **Save / Exit**, select **Exit** to exit MassHunter Quantitative Analysis

The validated method is ready to use with MassHunter Quantitative Data Analysis.

1 Translate a GC/MS ChemStation Quant Method into a MassHunter Method



2 Translate Data Files

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Automatically 21

The following describes how to translate GC/MS ChemStation data, both automatically and manually, to a format that can be used by MassHunter Quantitative Analysis.

During this process, the original ChemStation raw data files are not altered in any way. They may continue to be accessed using the GC/MS ChemStation for data analysis, if desired.



Manually

The following describes how to manually translate GC/MS ChemStation sample data files into a format that can be used by the MassHunter Quantitative Data Analysis program.

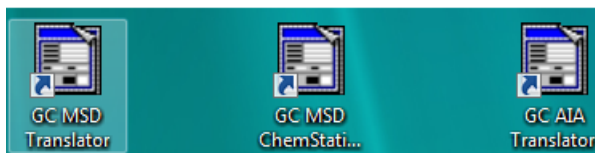
NOTE

This process can be automated when the MSD ChemStation File Translation software is installed on the same PC as the GC/MS ChemStation that is collecting the raw data, as described in the next section.

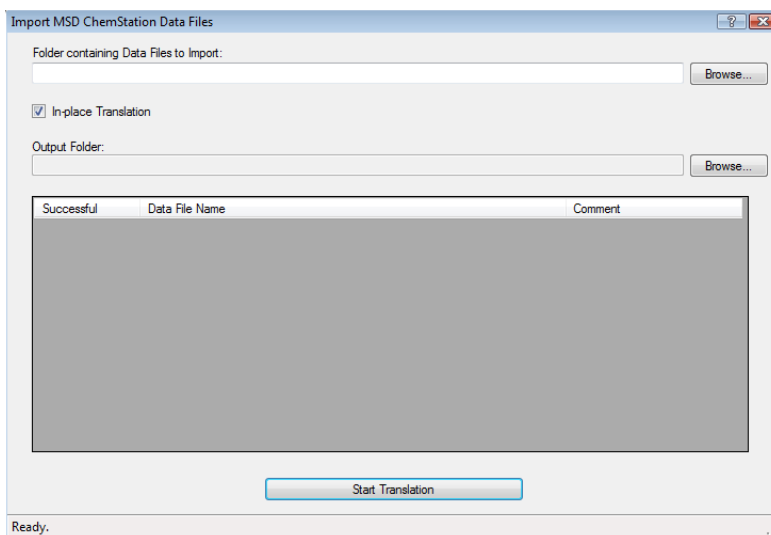
During the conversion process, the MSD ChemStation File Translation software will create a copy of the original data files and reformat them as necessary to conform to the MassHunter Quantitative data analysis format. The original GC/MS ChemStation raw data files are not altered in any way. They may continue to be accessed using GC/MS ChemStation for data analysis, if desired.

Procedure

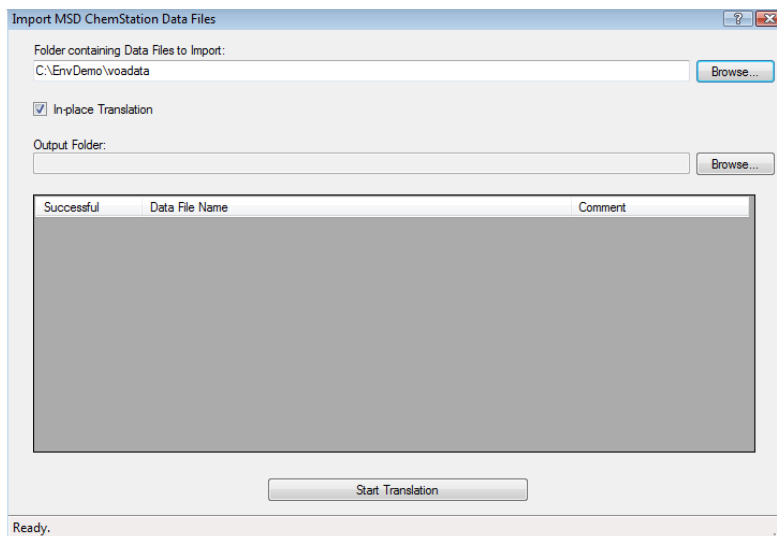
- 1 To begin, install the MSD ChemStation File Translation software as described in [Chapter 4](#).



- 2 Click on the **GC MSD Translator** desktop shortcut to start the translator. The **Import MSD ChemStation Data Files** screen is displayed.



- 3 Type the path or click the **Browse** button and navigate to the folder containing the data files you wish to translate. For this example we are going to use sample data files that are supplied with the GC/MS ChemStation. These files are located in the **envdemo** subdirectory of the GC/MS ChemStation.



- 4 Next, identify where you would like the translated files stored.

2 Translate Data Files

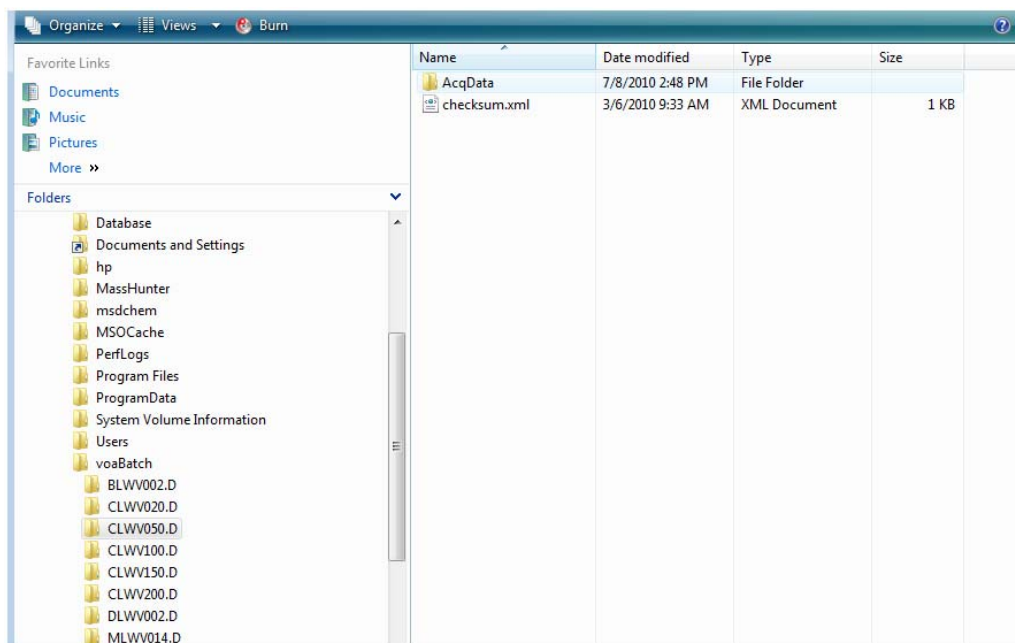
If you select **In-place Translation**, the system will create a sub-directory for the translated data files, directly under the directory containing the original data files.

If you select **Output folder**, uncheck the **In-place Translation** checkbox, then type the path, or navigate to the directory you wish to use for the translated data files.

In either case, the original GC/MS ChemStation raw data files are not altered in any way by this conversion. You may continue to access them using the GC/MS ChemStation at any time.

- 5 Click **Start Translation** to continue.
- 6 Watch the progress. As each file is translated it will be listed in the display.
- 7 When all the files are translated, you can go back to the directory and see the translated files.

Here is what the saved folders look like. The **checksum.xml** file and the **AcqData** folder that were added during the conversion process. The original data files remain unchanged.



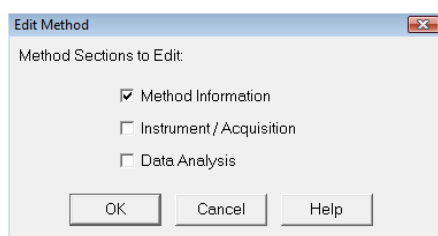
Now that the files have been translated, they can be analyzed using MassHunter Quantitative Data Analysis.

Automatically

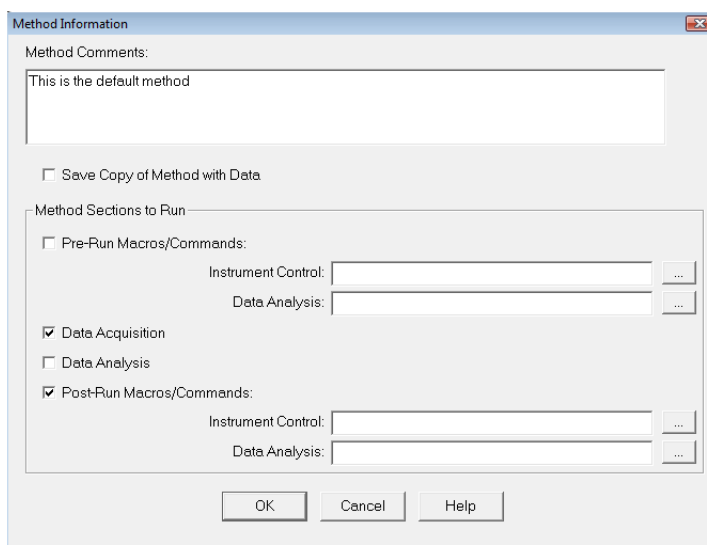
Once the MSD ChemStation File Translation software is installed on the PC that will be collecting the data ([Chapter 4](#)), and you define it in your method, as described below, the Translator will automatically create a copy of each collected data file, and format it for use in MassHunter. The original ChemStation data will remain untouched, and available to use in the GC/MS ChemStation if you desire.

Identify the Post-Run macro in the ChemStation method

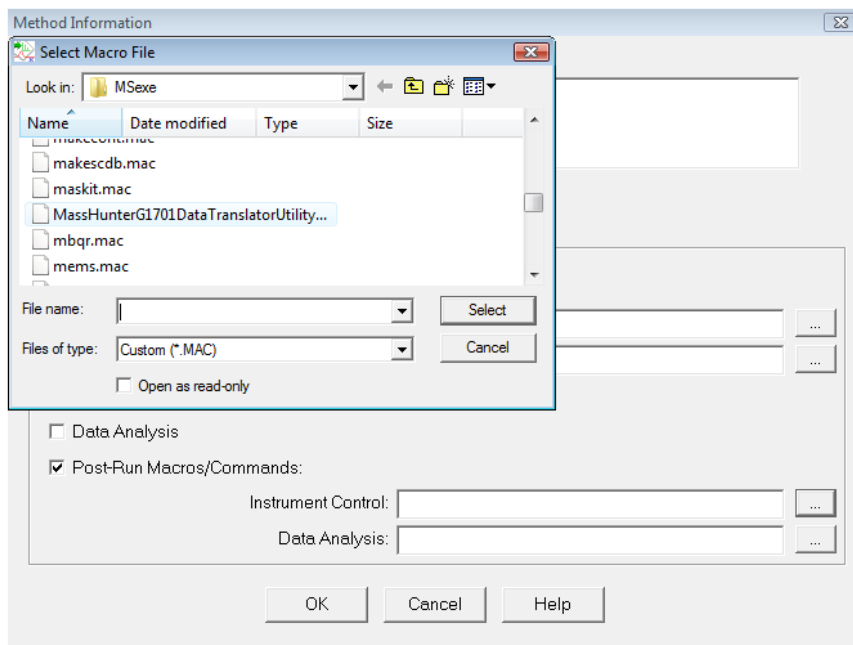
- 1 Open the GC/MS ChemStation and load the method that will be used to acquire the data.
- 2 Click the edit method icon to display the **Edit Method** dialog box.



- 3 Because we only need to edit the **Method Information**, uncheck the **Instrument/Acquisition** and **Data Analysis** check boxes.
- 4 Then click **OK** to continue. That displays the **Method Information** screen which is where we will identify the post-run translator macro.
- 5 Check the **Post-Run Macros/Commands** checkbox.



- 6 In the **Instrument Control** field, navigate to the **MSDChem/MSexe** folder, and select the **MassHunterG17701DataTranslatorUtilityMacro.mac** file.

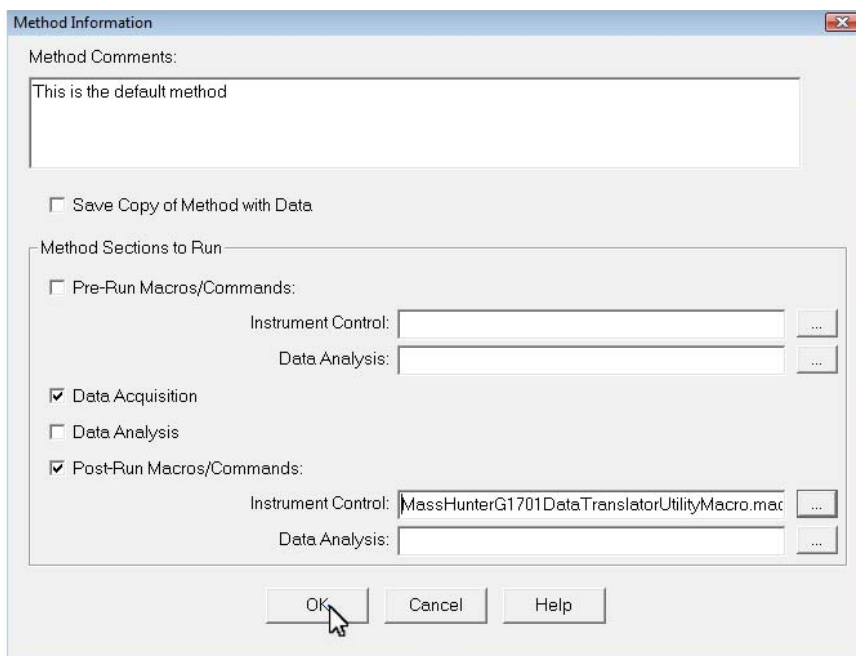


This macro was copied to the ChemStation's **/Msex** folder during installation of the Translator. (The default location is **MsdChem/Msex**.)

That is all that is necessary to define the MSD ChemStation File Translation software as the post-run macro for this method.

However, one additional thing to think about at this point is the Data Analysis option. If you are planning to do all your data analysis in MassHunter, to save processing time, you may uncheck the **Data Analysis** checkbox on the **Method Information** screen, otherwise, you may keep it checked.

- 7 Click **OK** to continue. A **Save method** dialog box is displayed.



- 8 Click **OK** once again, to save the changes to the method.

That is all the changes needed for the method.

Now, each time this method is run, the sample data gathered by it will automatically be saved in both the ChemStation and MassHunter formats.

Prepare the sample log table

Once the conversion utility is assigned to your method, prepare the sample log table as described below.

- 1 Open the sample log table you will use to collect your data.

	Vial	Sample	Method / Keyword	Data File	Type	Level
1	1	Calibration 50ng/ul	DEFAULT	CLWV050	Calibration	50
2	2	Calibration 100ng/ul	DEFAULT	CLWV100	Calibration	100
3	3	Calibration 150ng/ul	DEFAULT	CLWV150	Calibration	150
4	4	Calibration 200ng/ul	DEFAULT	CLWV200	Calibration	200
5	5	Calibration 20ng/ul	DEFAULT	CLWV020	Calibration	20
6	6	Daily Calibration #1	DEFAULT	DLWV002	DailyCal	50
7	7	Method Blank #1	DEFAULT	BLWV002	Blank	
8	8	Sample 1	DEFAULT	SLWV001	Sample	
9	9	Sample 14	DEFAULT	SLWV014	Sample	
10	10	Sample 14 MS	DEFAULT	MLWV014	Spike	
11	11	Sample 14 MSD	DEFAULT	NLWV014	Duplicate	
12						
13						
14						

- 2 Consider the data analysis process.

When developing your sequence, one of the primary points to consider is how the data will be analyzed by MassHunter.

In MassHunter, unlike the GC/MS ChemStation, data analysis is done in batches. That is, all the files that can be processed using a single data analysis method are grouped into a single **batch** and processed together, using a single method. This allows for extremely flexible side-by-side comparison of chromatograms from the analyzed files.

As you will see when we bring the sample data files into MassHunter, the most efficient way to collect the data gathered by your GC/MS ChemStation is to create a sample log table that groups similar samples, so the resulting data folder will contain only those files that can be analyzed using a single data analysis method.

If all the data files collected from your sequence can be analyzed using the same data analysis method, processing will be significantly streamlined.

- 3 Complete the sample log table as usual, keeping in mind the fact that it would be most efficient to include only those samples that can be analyzed using the same data analysis method as all the others in the group.

For this tutorial, we are using the sample data files included with the GC/MS ChemStation.

This sequence includes 5 calibration samples, 1 daily calibration sample, a method blank, two normal samples, a matrix spike, and a matrix spike duplicate.

When the data files resulting from this sequence are translated into the MassHunter format, the **Type** and **Level** columns, are not included.

It is a good practice to provide information about the sample **Type** and concentration **Level** in the Sample Name. (See the **Sample Log Table** example above.) This allows easy identification when sample **Type** and concentration **Level** are entered in MassHunter.

If all of your data will be analyzed in MassHunter only, you may leave the **Type** and **Level** columns blank.

- 4 Click **OK** to continue.
- 5 With the post-run macro defined in the method, and the sequence defined, click the run sequence icon to display the **Start Sequence** dialog box.

Method Sections to Run

Full Method

Reprocessing Only

Sequence Barcode Options

Disable Barcode for This Sequence

On Mismatch – Inject Anyway, Continue Sequence

On Mismatch – Don't Inject, Stop Sequence

Overwrite Existing Data Files

Sequence Comment:

Operator Name:

Data File Directory:

Pre-Seq Macros/Commands

Instrument Control:

Data Analysis:

Post-Seq Macros/Commands

Instrument Control:

Data Analysis:

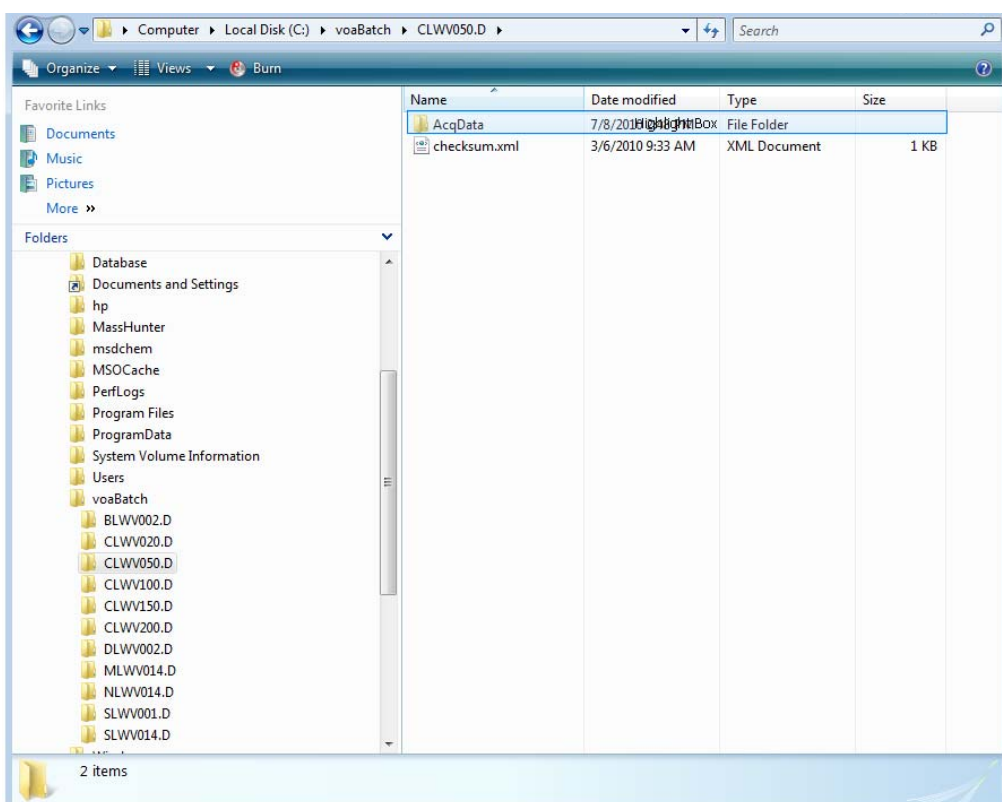
Enter the name of the directory to put data files in

2 Translate Data Files

- 6 Enter the destination folder for the files that will be created when this sequence runs. (Ideally, that folder will become the batch folder when we create a batch in MassHunter.)
- 7 Click **Run Sequence** to process the samples.

Review the data files generated

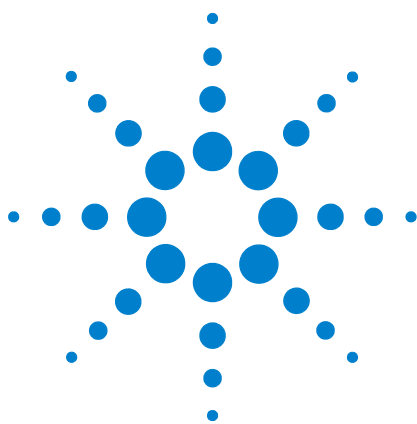
Once the sequence runs, review the folder and data files created by the GC/MS ChemStation.



The .D folders contain all the standard GC/MS ChemStation sample data files. If you would like to use your GC/MS ChemStation to analyze this data, you may do so at any time. These data files are not altered in any way.

Under each data file folder, you will also see the **AcqData** folder and the **checksum.xml** file. These are created by the MSD ChemStation File Translation utility post-run macro and are needed in order for the data to be used in MassHunter.

2 Translate Data Files



3 Create a Batch in MassHunter Using GC/MS ChemStation Generated Files

Creating a Batch 30

The following describes how to create a batch in MassHunter Quantitation Analysis with method and data files that were converted from GC/MS ChemStation files.

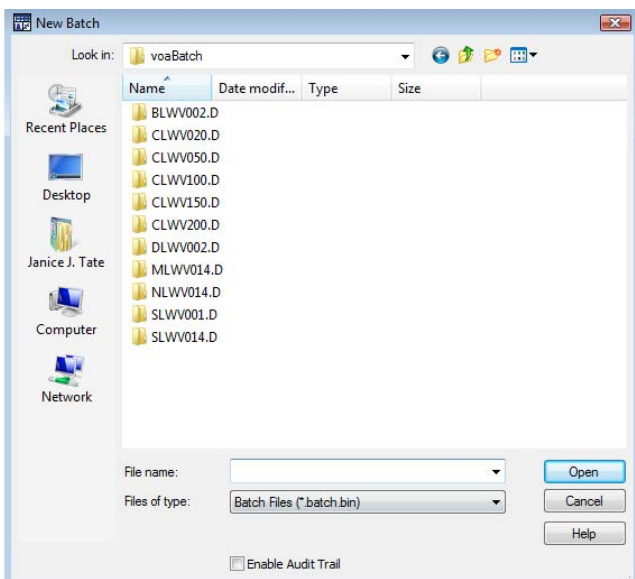
Creating a Batch

Creating a batch in MassHunter begins by defining the batch name and the folder in which it will be saved. This folder is often called the **batch folder**.

As you will see, it is most convenient if the batch folder is the same folder that contains the data files you will put into the batch. In this example, we are using the folder that contains the translated data files from the GC/MS ChemStation.

- 1 Open MassHunter Quantitative Data Analysis.
- 2 Select **File>New Batch**.
- 3 Navigate to the folder you want to use as the batch folder. In this case, it is the folder that contains the translated data files from the GC/MS ChemStation (those identified in the Sample log table).

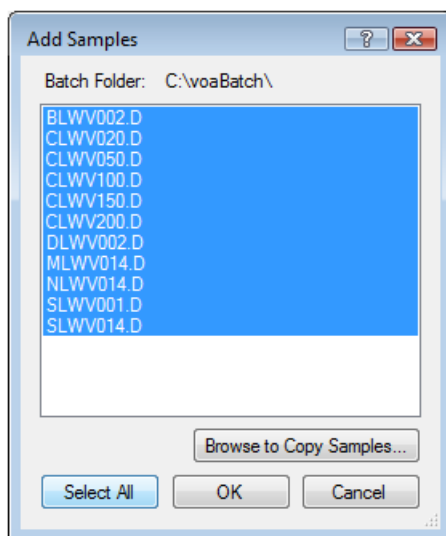
Notice the data folders (folders with the .D extension) are already in this folder. That will make it very easy to load them into the batch, when we do that (in step 6).



- 4 Enter a **File name** for this batch, then click **Open**. The system displays the **Batch** table, with the name you specified in the title bar. It will also:
 - Create a folder named **QuantResults** in the batch directory.
 - Create a batch file with the name you specified and the extension **.batch.bin**.
 - Save the *batchname*.batch.bin file to the **QuantResults** folder.

Next we will identify the samples that will be included in this batch.

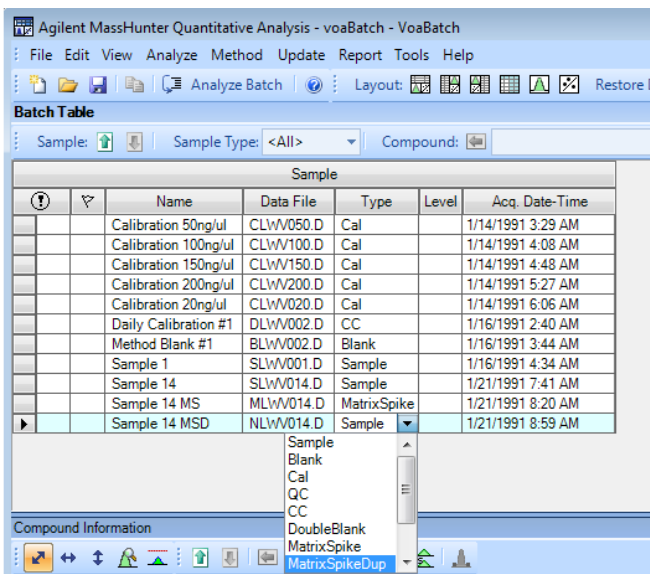
- 5 Select **File>Add Samples**.



The system displays all the sample data files in this folder. In this case, these are the samples that were collected by the ChemStation and automatically translated by the MassHunter Translator macro.

- 6 Click **Select All** to have all the samples in this folder included in the new batch.
- 7 Click **OK** to continue. Now each translated file is included in the new batch.
- 8 To finalize the process, use the drop-down box and select the applicable **Type** for each sample.
 - For Calibration samples select **Cal**.
 - For Daily Calibrations **CC**
 - **Blank** for Blanks
 - **Matrix Spike**
 - **Matrix Spike Duplicate**

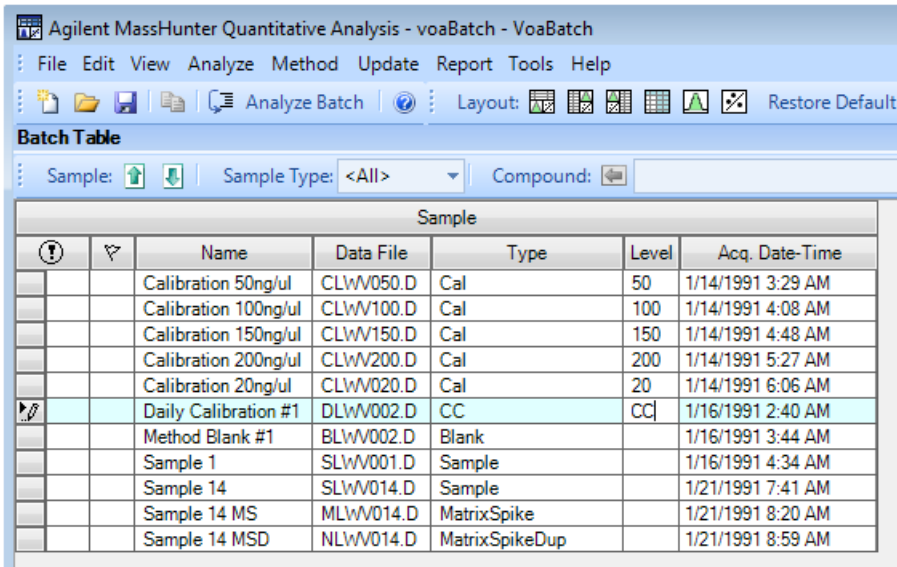
3 Create a Batch in MassHunter Using GC/MS ChemStation Generated Files



- 9 Enter the appropriate calibration **Level** label for each calibration sample. Similar to ChemStation processing, these labels must be identical to the label names stored in the quantitative data analysis method.

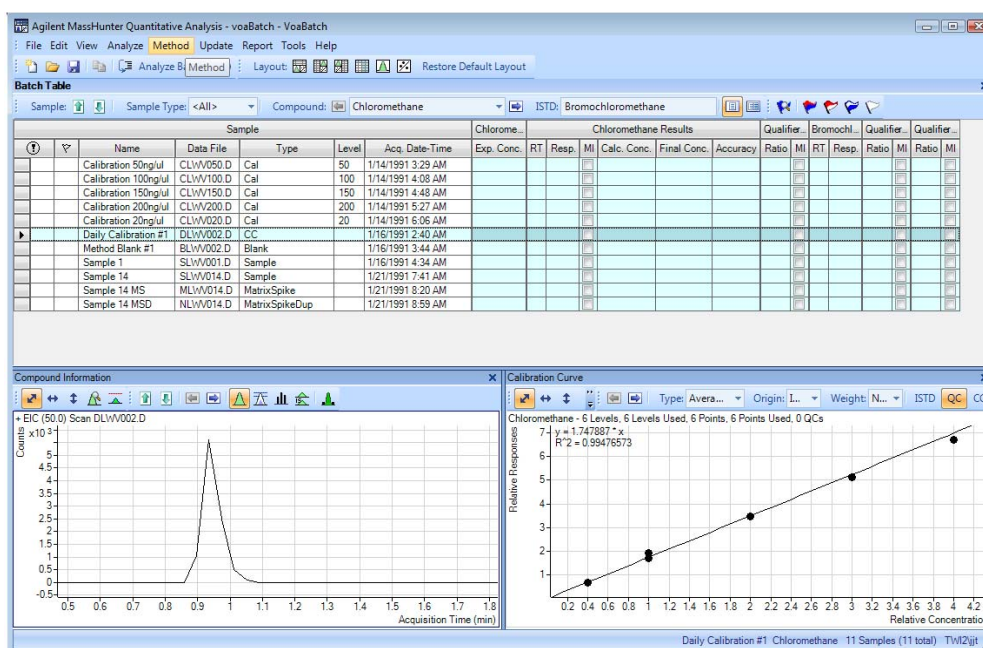
For this batch enter: 50, 100, 150, 200, 20, and CC

The final step in the process is to attach a quantitation method to the batch. For this example we will use the previously translated GC/MS ChemStation method.



- 10 Select **Method>Open>Open and Apply from Existing File....**
- 11 Navigate to the folder containing your validated MassHunter quantitative analysis methods and select the method to apply to this batch.

For this example, we are going to attach a method we translated from the GC/MS ChemStation, and previously validated in MassHunter.
- 12 Click **Open** to apply the selected method to the current batch.
- 13 Select **File>Save Batch** from the main menu to save this method with this batch.

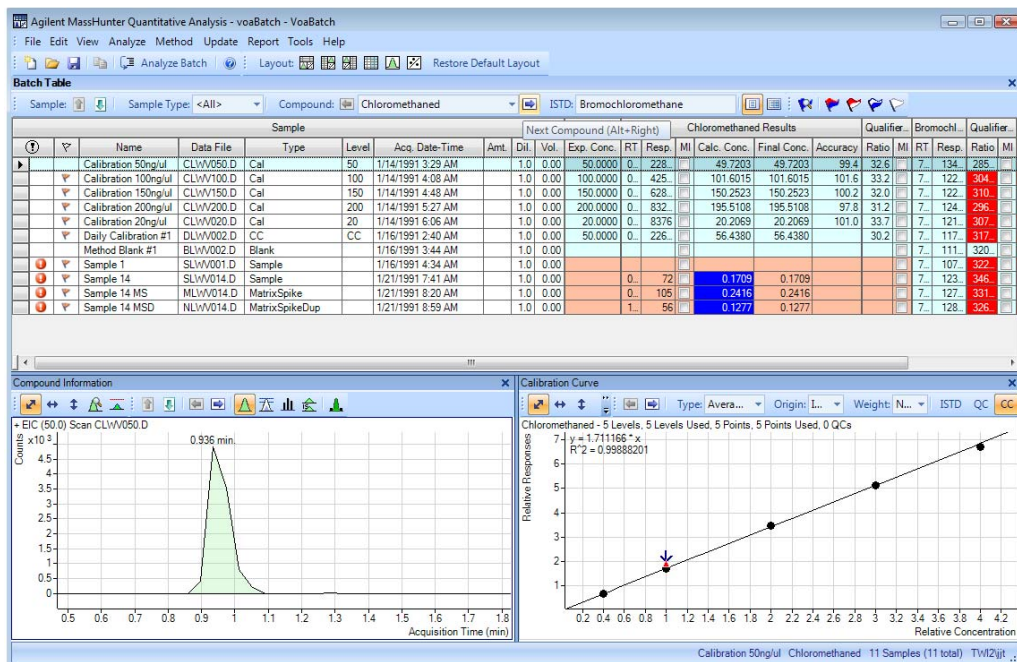


The batch directory now contains all the sample data files you selected, plus a folder created by **Quantitative Analysis** program, named **QuantResults**, with the *batchname.batch.bin* file.

3 Create a Batch in MassHunter Using GC/MS ChemStation Generated Files

- 14 Now that the method is attached, click **Analyze Batch** to process the sample data and display the results.

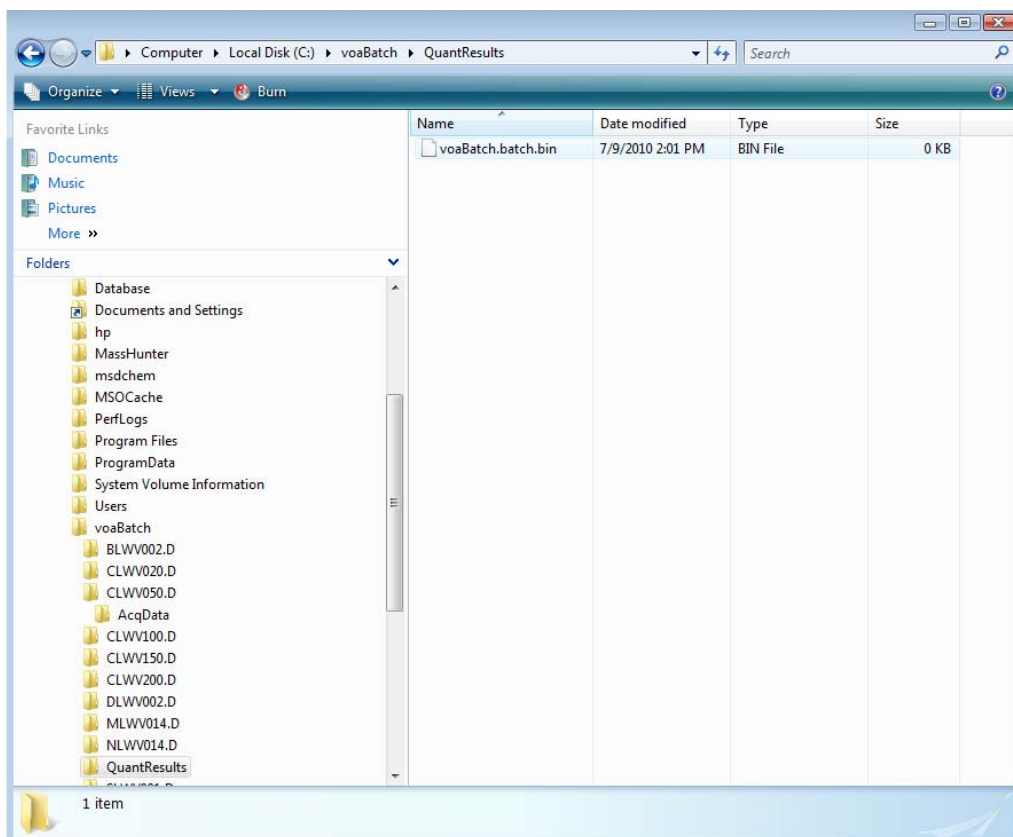
MassHunter displays the results in the **Batch Table**.



Red and blue highlights indicate results that were either higher or lower than specified in the method.

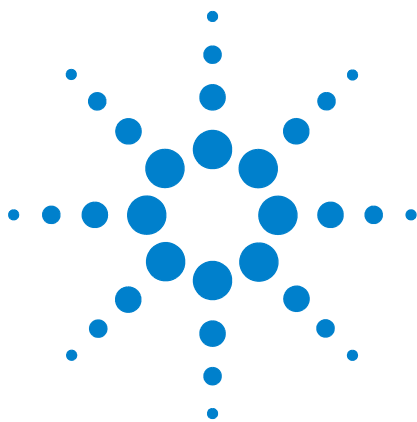
- 15 Click the **Next** compound button to view the results for each compound, one-at-a time.

- 16 When a batch is analyzed, MassHunter creates a **QuantResults** folder inside the **Batch** folder.



The **QuantResults** folder will include a copy of the batch file, **VoaBatch.batch.bin** in this case.

3 Create a Batch in MassHunter Using GC/MS ChemStation Generated Files



4 Installing the MSD ChemStation File Translation Software

Installation 38

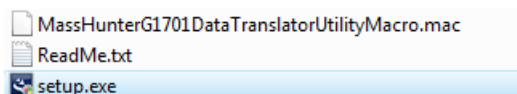
The following describes how to install the MSD ChemStation File Translation software, which is used to convert GC/MS ChemStation data and methods to MassHunter Quantitative Analysis format.

The MSD ChemStation File Translation software is delivered on the Supplemental disk supplied with your GC/MS ChemStation.

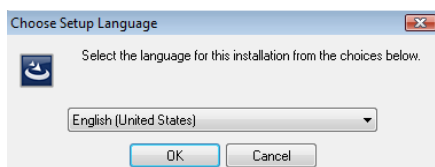


Installation

- 1 To begin, insert the **Supplemental** disk (supplied with your GC/MS ChemStation) into your disk drive.
- 2 Navigate to the **GCMS Translator\G1701 MSD ChemStation** folder, and double-click on the **Setup.exe**.



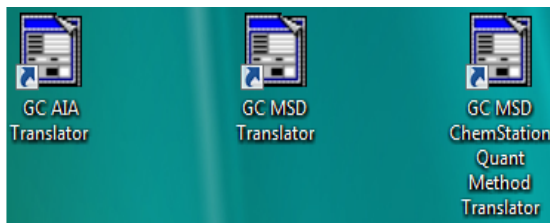
- 3 Select the Language you want to use, and click **OK** to continue.



- 4 The Installation Wizard will complete the installation, and prompt you when it is completed.

Once installed, there will be three new icons on your desktop:

- GC AIA Translator
- GC MSD Translator
- GC MSD ChemStation Quant Method Translator



- 5 To allow automatic data file translation:
 - a On the **Supplemental** disk supplied with the ChemStation software as described in steps 1-4, navigate to the **GCMS Translator\G1701 MSD ChemStation** folder.
 - b Copy the **MassHunterG1701DataTranslatorUtilityMacro.mac** from that folder.
 - c On the PC that will be collecting the raw data, paste the copied file in the **MSexe** folder of the installed ChemStation software (default location: **msdchem/MSexe**).
 - d Identify this utility as the post-run macro in the ChemStation method, as described in [“Identify the Post-Run macro in the ChemStation method”](#) on page 21.

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