

# MassHunter Quantitative Analysis Audit Trail and Compliance

### **Quick Start Guide**

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21 CFR Part 11 is a result of the efforts of the US Food and Drug Administration (FDA) and members of the pharmaceutical industry to establish a uniform and enforceable standard by which the FDA will consider electronic records equivalent to paper records and electronic signatures equivalent to traditional handwritten signatures. For more information, see http://www.fda.gov/RegulatoryInformation/Guidances/ucm125067.htm.

MassHunter Quantitative Analysis Audit Trail and Compliance includes the following features to support 21 CFR Part 11 compliance:

- Roles that restrict actions to certain Users
- Audit Trails
- Record Security through integration with Agilent OpenLAB Enterprise Content Manager (ECM)
- Hash Signature for data files allow you to check the integrity of files during a compliance audit

Besides full Compliance mode, MassHunter Quantitative Analysis also offers the **User Management and Audit Trail Only** mode, which gives you a subset of compliance features.

This Quick Start Guide introduces you to these capabilities. See the online help for more information on these features.

# Where to Find More Information

Agilent Web Site	To view support information for MassHunter Quantitative Analysis Audit Trail and Compliance and other Agilent products, see <a href="http://www.agilent.com">http://www.agilent.com</a>
MassHunter Workstation Software Online Help	You can access MassHunter Workstation online help from the $Help$ menu in the software or by pressing the $F1$ key in the MassHunter Workstation windows or dialog boxes.
Other manuals	Additional user information for MassHunter software and the LC/MS instrument can be found from the MassHunter online Help after installation.
	Additional user information for ECM administration tasks can be found in the online Help for the OpenLAB ECM server. (Log onto the OpenLAB ECM Server to access the online Help.)

**Getting Started for Users** To log into MassHunter

# **Getting Started for Users**

After **Compliance** mode is enabled on your system, and the OpenLAB ECM server is installed and configured, you use the MassHunter programs exactly as you would in standard mode, with just a few exceptions.

For more information about the differences between **Compliance** mode and other modes, see "Comparing Compliance Mode with other Quantitative Analysis Modes" on page 44.

### To log into MassHunter

Double-click the Quantitative Analysis program icon on your desktop.
 If the Compliance mode is enabled, the OpenLAB ECM Login dialog box opens.

OpenLAB ECM	Login	×
Server URL:	http://scsopenlab	
Username:	user1	
Password:	*******	
Account	demo	
Domain:	BUILT-IN	
	Remember account & domain	
	Login Can	cel

2 Enter your Username and Password. Then, click OK.

### To lock your computer screen when unattended

When you are going to be away from your computer for awhile, lock your computer so that it can't be accessed by others.

- 1 Press Ctrl and Alt and Delete.
- 2 Click the Lock Computer button.

To unlock your computer on your return, press **Ctrl** and **Alt** and **Delete**, type in your password, and click **OK**.

### To use MassHunter with Compliance features

- If your Role is restricted, some commands in the MassHunter programs will be unavailable to you.
- If validation requirements are turned on for your Role and the action that you are performing, you are required to enter your User name and Password and/or a reason for any changes that you make. For example, you may need to give a reason when you manually integrate a peak or disable a calibration point. The User Validation and Reason dialog box is displayed when you do the action.

User Validation and Reason	? 🛛
Action: Manually integrate compound Amp in sam User and Password This operation requires valid user and password User:	OK Cancel
Password: Reason: This operation requires reason	]

**Figure 1** User Validation and Reason dialog box

Step 1. Install the OpenLAB ECM server

# **Installation and Setup - Compliance Mode**

Before you begin, make sure that you have the OpenLAB ECM software that is compatible with your MassHunter Data Acquisition or Quantitative Analysis software.

### Step 1. Install the OpenLAB ECM server

1 If you don't already have one installed, install an OpenLAB ECM server for your work group.

Refer to the OpenLAB ECM installation guide. Make sure that the OpenLAB ECM version is compatible with your version of MassHunter software.

**2** If the appropriate ECM Database Account has not been created yet, create one on the OpenLAB ECM server.

Accounts are created to ensure that only authorized users can access data on an OpenLAB ECM server. Users log in with a specific Account name when they run MassHunter Data Acquisition and Quantitative Analysis. MassHunter objects that are created and stored while logged in to an Account can be accessed only by other users with access to that Account.

### Step 2. Install the OpenLAB ECM client

Do this step on each MassHunter Workstation that has never connected to an OpenLAB ECM server.

- **1** Connect to the OpenLAB ECM server:
  - **a** In Internet Explorer, go to the OpenLAB ECM server URL. The URL is typically in the format http://*ECMServerName*/ecm.
  - **b** In the **OpenLAB ECM Login** box, type in the OpenLAB ECM **Username** and **Password**. Click **Login**.

The first time the OpenLAB ECM server is accessed from this MassHunter Workstation, these components are downloaded and installed:

- Agilent OpenLAB ECM API
- Agilent OpenLAB ECM Client
- Agilent OpenLAB ECM Resources

Do not install OpenLAB ECM Scheduler or Cyberprinter. They are not supported by the MassHunter Data Acquisition program.

- **2** On the MassHunter Workstation, add the OpenLAB ECM server to the list of Trusted Sites:
  - a In Internet Explorer, click Tools > Internet Options > Security > Trusted Sites > Sites.
  - **b** Clear the check box for **Require server verification (https:) for all sites in this zone**.
  - **c** In the **Add websites to the zone** text box, type the URL for your OpenLAB ECM server and click **Add**.
  - d Click Close > OK.
  - e Restart Internet Explorer to apply the changes.

This step allows users to retrieve files from the OpenLAB ECM server through Internet Explorer. For more details on retrieving files, see "Retrieve versus Checkout (Compliance Mode)" on page 46.

### NOTE

Note that the lowest storage unit that you can define for tune files and Studies are Drawers. Tune files and Studies are stored in separate Folders within the Drawers.

### Step 3. Enable Compliance for Quantitative Analysis

Do this step on each MassHunter Workstation.

- **1** If you are doing a new system installation that includes Data Acquisition:
  - **a** Install MassHunter Quantitative Analysis in standard workflow mode.
  - **b** Make sure that the Quantitative Analysis program operates properly.
  - **c** Continue to step 3.
- **2** If you are doing a new offline installation:
  - **a** Start the MassHunter Quantitative Analysis installation as a new installation.
  - **b** When prompted for Feature Type, click **Activate Compliance**.
  - **c** Continue installation as instructed in the installation guide.
- **3** If MassHunter Quantitative Analysis is already installed in standard workflow mode:
  - a Click Start > Control Panel > Programs and Features.
  - **b** Click **Change**.
  - c Click Activate Compliance.
  - **d** Follow the instructions as they are presented to complete activation.
- **4** If MassHunter Quantitative Analysis is already installed in Manage Users and Audit Trail Only mode, or a previous release is installed:
  - **a** Remove the MassHunter Quantitative Analysis software.
  - **b** Start the MassHunter Quantitative Analysis installation as a new installation.
  - c When prompted for Feature Type, click Activate Compliance.
  - **d** Continue installation as instructed in the installation guide.
- **5** Run the ATM Configuration tool and save the settings:
  - a From the Windows Start menu, click All Programs > Agilent > Quant Tools > ATM Configuration.
  - **b** Log onto the OpenLAB ECM server as the user **admin**.
  - c Click File > Save. Then click File > Exit.

This step installs Quantitative Analysis Privileges on the OpenLAB ECM server. You do this step only once for each ECM Server.

### Step 4. Set up Users, Groups, and Roles

Access to the Quantitative Analysis program is determined by the Groups and Roles that are set up on the OpenLAB ECM server. You can change these settings from the MassHunter Workstation. See "To associate Roles with Command Groups" on page 22.

- 1 Connect to the OpenLAB ECM server:
  - **a** In Internet Explorer, go to the OpenLAB ECM server URL. The URL is typically in the format http://*ECMServerName*/ecm.
  - **b** In the **OpenLAB ECM Login** box, type in the OpenLAB ECM **Username** and **Password**. Click **Login**.
- 2 Click the Admin tab, then click Account Administration.
- **3** Click Users/Groups/Roles to open the Account Administration window.



**4** If you are not using your organization's Windows domain to control access, create an ECM User for each user. These ECM Users become part of the BUILT-IN domain.

Step 4. Set up Users, Groups, and Roles

- **5** Set up MassHunter Quantitative Analysis ECM Users and Roles:
  - **a** *Optional.* Create ECM User Groups for MassHunter Quantitative Analysis. Assign each User to one User Group.

For example, you can create the "Developers" Group for users who need access to all Quantitative Analysis commands, and "Analysts" for users who need access to just a part of the commands.

- **b** Create ECM Roles for different classes of users, such as "Developers" and "Analysts". Add Users and Groups to each Role.
- **c** Assign Quantitative Analysis Privileges to each Role.

Four built-in Quantitative Analysis Privileges are available:

- MassHunter Quantitative Analysis: Batch Analysis
- MassHunter Quantitative Analysis: Batch Review
- MassHunter Quantitative Analysis: Report
- MassHunter Quantitative Analysis: Method Development

These Privileges are installed on the OpenLAB ECM server the first time an ATM Configuration is saved from a connected MassHunter Workstation Quantitative Analysis session.

- **d** Add the Privilege **Contributor** and **Folder Administrator** to each Role. This Privilege lets users read, create, and retrieve files and folders on the OpenLAB ECM server.
- e Assign each User and Group to a Quantitative Analysis Role.

The Privileges that are assigned to each ECM Role determines the Command Groups that each user in that Role can access on any MassHunter Workstation, while logged into the same ECM account.

These Role assignments can also be done on any MassHunter Workstation in the ATM Configuration tool.

- **6** Ask each user to verify his or her account:
  - **a** Log into the MassHunter Workstation.
  - **b** Open Internet Explorer and go to the OpenLAB ECM URL. The URL is typically in the format:

http://ECMServerName/ecm

- **c** Create a folder within the user's assigned ECM environment.
- **d** Upload a file to the user's assigned ECM environment.

### Step 5. Install ECM Send To add-in

If you want to transfer files to the OpenLAB ECM server outside of the MassHunter program (such as to copy report templates to the server), install the **Send To** add-in.

Do this on each MassHunter workstation.

- 1 Connect to the OpenLAB ECM server:
  - **a** In Internet Explorer, go to the OpenLAB ECM server URL. The URL is typically in the format http://*ECMServerName*/ecm.
  - **b** In the **OpenLAB ECM Login** box, type in the OpenLAB ECM **Username** and **Password**. Click **Login**.
- **2** Click the **Administration** tab.
- 3 Click Downloads.
- 4 Click ECM SendTo Add-in for Windows Explorer.
- 5 Follow the instructions as they are presented to complete the installation.



- 6 Log off of the OpenLAB ECM Server, then log back in.
- **7** If you are asked to install updates, follow the instructions to do so. Log off the OpenLAB ECM server, then log back in. Continue to install updates if you are prompted to do so.

# Step 6. Copy Report Templates to the OpenLAB ECM server

If Report Templates were installed on the MassHunter Workstation, upload them to a location in ECM that MassHunter Quantitative Analysis users will be able to access.

Copy only the templates that you need.

- **1** Connect to the OpenLAB ECM server:
  - **a** In Internet Explorer, go to the OpenLAB ECM server URL. The URL is typically in the format http://*ECMServerName*/ecm.
  - **b** In the **OpenLAB ECM Login** box, type in your OpenLAB ECM **Username** and **Password**. Click **Login**.
- **2** On the OpenLAB ECM server, create or identify folders to store the report templates.

As an example, in the location of your choice, create the cabinet **Report Templates**. In the **Report Templates** cabinet, create drawers named **PDF** and **Excel**. In each of these drawers, create folders named **Quant** and **Unknowns**.



- 3 In a Windows Explorer window, open the folder \MassHunter \ Report Templates \Quant \PDF-Reporting.
- 4 Select all the files, right-click the selection, and click **Send to > Agilent OpenLAB ECM**.

If you don't see the **Send to > Agilent OpenLAB ECM** command, do the steps in "Step 5. Install ECM Send To add-in" on page 11.

### **Installation and Setup - Compliance Mode**

Step 6. Copy Report Templates to the OpenLAB ECM server

	Contraction of Contra								x
🚱 💽 🗢 📙 🕨 Computer 🛛	Local Disk (C:) ► MassHunter ► Report Ten	nplates 🕨 Qui	ant ▶ PE	DF-Reporting 🕨	•	<b>f</b> g [ 5	Search PDF-Reporting		٩
File Edit View Tools H	elp								
Organize 🔻 🔡 Open	Burn New folder							-	0
🔶 Eavorites	Name	Date modifi	ed	Туре	Size				-
T Desktop	🕌 cache	4/21/20151	2:52 PM	File folder					
🖳 Recent Places	Codes	5/24/2015 5	:23 PM	File folder					
🗼 Downloads	🕌 Unknowns	5/24/2015 5	:23 PM	File folder					-
	AuditTrail.report.xml	5/19/2015 5	:42 PM	XML Document		1 KE	3		
🧊 Libraries	DrugAnalysis.report.xml	5/19/201	🖌 Edit v	with Notepad++		1 KE	3		
Documents	DrugAnalysis_DopingScreening.report.xml	5/19/201	Scan	for Viruses		1 KE	3		
🎝 Music 🗧	Env_CC_Avg.report.xml	5/19/201	WinZ	ip	- F	1 KE	3		
Pictures	Env_CC_MidPoint.report.xml	5/19/201	C 1	L-					
🛃 Videos	Env_CC_Previous.report.xml	5/19/201	send	10	- 1 @	Agii	ent OpenLAB ECIVI		
	Env_DualGCResults.report.xml	5/19/201	Cut			Biue	etootn		
Computer	Env_DualGCResults_TIC.report.xml	5/19/201	Сору			Cor	npressea (zippea) toic	ier	
🏭 Local Disk (C:)	Env_InitialCal.report.xml	5/19/2011	Creat	e shortcut		Des	ktop (create snortcut)		
USB30FD (E:)	Env_LCSSpike.report.xml	5/19/201	Delet	e			uments		
HITACHI (F:)	Env_MSD.report.xml	5/19/201	Renar	me	8	g Fax	recipient		
Gr Maturali	Env_QA_Check.report.xml	5/19/201	-		-		recipient		
		5/19/2011	Prope	erties	6		D KW Drive (D:)		-
34 items selected					-	USB	30FD (E:) ACHI (E:)		
Show more details					C	s 141	Here (H)		

### Installation and Setup - Compliance Mode

Step 6. Copy Report Templates to the OpenLAB ECM server

- 5 In the Agilent OpenLAB ECM Send Files window:
  - For **Destination**, navigate to the folder ...\**Report Templates**\**PDF**\ **Quant** that was just created.
  - Click Upload.

🖬 Agilent OpenLAB ECM Send Files	x
Destination	
MassHunter Training\Report Templates\PDF\Quant	
Options	
O Upload Individual Files Associate Files	
C Create SSIZIP Name: SSIZIP	
Upload Folders/Files:         Image: Audit Trail report xml         Image: Doping Screent xml	_Va mp mp ratiu blet Inte

- **6** In the **Add File** dialog box, mark the **Apply to all files** check box. If prompted, type a reason. Click **OK**.
- 7 In the Windows Explorer window, right-click the folder Codes, then clickSend to > Agilent OpenLAB ECM.

Agilent OpenLAB ECM Send Files	? <mark>x</mark>
Source C:\MassHunter\Report Templates\Quant\PDF-Reporting\Codes	
Destination	
MassHunter Training\Report Templates\PDF\Quant	
Profile	- D
US. Opioad a Massmuniter Data Folder - Standard Frome	<u> </u>
This profile uploads individual MassHunter data folder (.d folder) as an SSIZIP file into ECM. Please specify the data folder as the Source location. The Destination location should specify the target "Folder" (Location\Cabinet \Drawer\Folder) in ECM	*
	Ŧ
Version : 3.4.1.613 Agilent Technologies, Inc.	Cancel

#### Installation and Setup - Compliance Mode

Step 6. Copy Report Templates to the OpenLAB ECM server

- 8 In the Agilent OpenLAB ECM Send Files window:
  - For **Destination**, navigate to the folder ...\**Report Templates**\**PDF**\ **Quant** that was just created.
  - Set Profile to 05. Upload a MassHunter Data Folder Standard Profile.
  - Click Upload.
- **9** In the **Agilent OpenLAB ECM Send Files Upload Information** dialog box, click **Upload**.

Agilent OpenLAB ECM Send Files - Upload Information
The following data will be uploaded to ECM:
⊡
Upload Cancel

#### 10 In the Add File Dialog, click OK.

- **11** Repeat step 3 through step 10, but with the source and destination folders and locations in Table 1.
- Table 1
   Source and destination folders for report templates

Content	Windows Folder	OpenLAB ECM server folders
Files	\MassHunter\Report Templates\Quant\PDF-Reporting\Unknowns	\Report Templates\PDF\Unknowns
Folder	\MassHunter\Report Templates\Quant\PDF-Reporting\Unknowns\ Codes	\Report Templates\PDF\Unknowns
Files	MassHunter\Report Templates\Quant\en-US\Letter\ISTD\ Parts_Graphics <sup>*</sup>	\Report Templates\Excel\Quant
Files	MassHunter\Report Templates\Quant\en-US\Letter\ISTD\ Parts_Graphics	\Report Templates\Excel\Quant
Files	MassHunter\Report Templates\Quant\en-US\Letter\Unknowns*	\Report Templates\Excel\Unknowns

\* These files are in English, for letter-sized paper. Choose the appropriate source folder for your language and locale.

If Excel report templates need to be customized, check out the report template from the OpenLAB ECM server. Make the needed changes, test the changes, then check the file back in.

If you want to use the Excel version of the Quantitative Analysis Audit Trail report template instead of the PDF version, make sure you copy **QuantReport\_AuditTrail\_B\_06\_00.xltx** in **MassHunter\Report Templates\ Quant\en-US\Letter\Compliance** to the OpenLAB ECM server.

If multiple language or paper sizes are required, create separate folders on the OpenLAB ECM server with descriptive names, such as "Quant - Eng A4".

Unlike PDF report templates, Excel report templates are fixed to a single language and paper size.

# Installation and Setup - User Management and Audit Trail Only Mode

### **Step 1. Enable User Management and Audit Trail Only mode**

- **1** If MassHunter Quantitative Analysis is not already installed:
  - **a** Start the MassHunter Quantitative Analysis installation.
  - **b** When prompted, click **Activate User Management and Audit Trail Only**.
  - **c** Follow the instructions as they are presented to complete activation.
- **2** If MassHunter Quantitative Analysis is already installed in standard workflow mode:
  - a Click Start > Control Panel > Programs and Features.
  - **b** Click Change.
  - c Click Activate User Management and Audit Trail Only.
  - **d** Follow the instructions as they are presented to complete activation.

### Step 2a. Create Users and Groups

NOTE

Do this step to create Users and Groups on the computer where you are running MassHunter Quantitative Analysis program.

Refer to instructions from Microsoft to create Users and Groups.

If you prefer to use existing Windows Groups to assign Roles, skip to "Step 2b. Set up Roles for existing Windows Groups" on page 20.

- **1** If needed, create a User account for each user.
- **2** Create these new groups. Make sure they are spelled exactly as shown:
  - QuantAdministrators
  - QuantBatchAnalyzer
  - QuantBatchReviewer
  - QuantMethodDeveloper
  - QuantReportGenerator
- **3** Add each User to a Group based on the role that they will play in your laboratory.

You can also add Users to the Groups as you create each Group.

If you are using the Study Manager program and submitting a Bioanalysis study, make sure that the person using the Study Manager program has the correct permissions for the Quantitative Analysis program. See the Study Manager Quick Start Guide for a list of the permissions that a person submitting a Bioanalysis study needs.

### Step 2b. Set up Roles for existing Windows Groups

Do this step only if you want to use your own Windows Groups to assign Roles and Privileges to Users. The Role assignments are stored on each MassHunter workstation and apply only to that workstation.

Refer to instructions from Microsoft to add Groups and Users.

- **1** Create User accounts and Groups as needed.
- **2** Assign Users to Groups as needed. Make sure each Group consists of Users who require the same Roles and Privileges.
- **3** Start the ATM Configuration program. See "To open the ATM Configuration tool" on page 21.
- 4 Delete the existing Roles (QuantBatchAnalyzer, QuantBatchReviewer, QuantMethodDeveloper, or QuantReportGenerator).
- **5** Create new Roles using the names of your custom Windows User Groups.

### **Step 3. Customize Roles**

Do this step to assign the Roles that are required for various actions or commands in the MassHunter Quantitative Analysis program. Assigning a Role to a Command Group means that a User must be a member of that Role to run the action or command that belongs in that Command Group.

Assign roles that are required for each Command Group (Roles) as needed. See "To associate Roles with Command Groups" on page 22.

# **Administration Tasks**

For more tasks to manage Quantitative Analysis in Compliance mode, refer to "Using OpenLAB ECM with MassHunter Quantitative Analysis Workflow Guide", which you can download from Agilent at http://www.agilent.com/cs/library/usermanuals/public/G3651AA-90005\_EC M\_MassHunter Workflow.pdf

### To open the ATM Configuration tool

You must be a member of the group **QuantAdministrators** to open the ATM Configuration tool.

- **1** From the **Quant Tools** folder, double-click **ATM Configuration**.
- **2** In the **ECM Login** dialog box, log in as a User with Administrative privileges.



For the server URL, use the format http://ECMServerName. Do not add "/ecm" after the server name.

### To associate Roles with Command Groups

The actions that a User or Group is allowed in the Quantitative Analysis program is determined by the Role to which the User or Group is assigned, and the Privileges that are assigned to that Role.

After installation, you can change the Roles that are assigned to Command Groups, in the ATM Configuration tool.

In **Compliance** mode, Users and Groups are assigned to ECM Roles on the ECM server. The ECM Roles are associated with Command Groups in the ATM Configuration tool.

- **1** Open the ATM Configuration tool. See "To open the ATM Configuration tool".
- **2** For each Command Group (left pane):
  - **a** Select the Command Group.
  - **b** In the right pane, select the **Required User Roles** that are allowed to do the Commands that are included in the Command Group.

For User Management and Audit Trail Only mode, if no Required User Role is selected for an action or command, then that action or command can be run by all users.

Note that in Compliance mode, the Roles that you assign in the ATM Configuration tool is saved to the ECM Server, and will affect all users on all MassHunter workstations that are connected to the same ECM Account.

3 Click File > Save.

### To enable/disable audit requirements for individual commands

- **1** Open the ATM Configuration tool. See "To open the ATM Configuration tool".
- **2** For each command for which you want to update audit requirements:
  - **a** In the left pane, select the Command Group that you want to affect.
  - **b** Click the arrow to the left of the Command Group name to show the list of Commands in that Command Group.
  - c Click the Command to update.
  - **d** Select the audit requirements for the Command.
- 3 Click File > Save.

grinni oonigaadan	
File Help	
Batch Analysis     CmdAddSample     CmdAnalyze	User Validation and Reason CmdAddSample
CmdApplyMethodToAllSamples CmdCalibrate CmdClearCalibration	<ul> <li>Requires Command Reason</li> <li>Requires User Validation</li> </ul>

Figure 2 ATM Configuration program

Requires Command Reason	Requires that the user enters a reason when the user runs the selected command.
Requires User Validation	Requires that the user enters his or her User name and password when the user tries to run the selected command.

### To view method audit history

You can view the audit history of any method to see what has been changed and why.

This topic applies to only **Compliance** mode.

**1** Open the Method History tool.

From the Windows **Start** menu, click **All Programs > Agilent > MassHunter Workstation > Quant Tools > Method History**.



- 2 Log into the OpenLAB ECM server with your User name and Password.
- **3** Click **Browse** and find the method of interest. Click **Open**.
- 4 Click Show History.

De	tails						
	Name						
Θ	Quantitative Analysis	Method					
	Revision	Date	User	File1 Exists	File2 Exists	Identical	Details
	1	06/21/2015	Slate (BUILT-IN\slate)		1		Details
	2	06/21/2015	Slate (BUILT-IN\slate)	$\checkmark$	$\checkmark$		Details
	3	06/21/2015	Slate (BUILT-IN\slate)	1	1		Details
	4	06/21/2015	Slate (BUILT-IN\slate)	<b>√</b>	<b>V</b>		Details
	5	06/21/2015	Slate (BUILT-IN\slate)	<b>V</b>	$\checkmark$		Details
	6	06/21/2015	Slate (BUILT-IN\slate)	1	$\checkmark$		Details
3	Quantitative Analysis	Report Method					
	Revision	Date	User	File1 Exists	File2 Exists	Identical	Details
	1	06/21/2015	Slate (BUILT-IN\slate)				Details
	2	06/21/2015	Slate (BUILT-IN\slate)		1		Details
	3	06/21/2015	Slate (BUILT-IN\slate)	1	1		Details
	4	06/21/2015	Slate (BUILT-IN\slate)	1	1		Details
	5	06/21/2015	Slate (BUILT-IN\slate)	1	1		Details
	6	06/21/2015	Slate (BUILT-IN\slate)	1	1		Details
_	and the second						

# 5 Expand Quantitative Analysis Method and Quantitative Analysis Report Method.

### **6** Click **Details** for the revision that you want to view.

Method 1: \GCMS\GC	MS\Jun 2015\VOA\VOA2.m.ssizi	ip (1)			
Method 2: \GCMS\GC					
	W3 0011 2013 (VOA (VOA2.111.55)2)	ip (2)			
Type Table	Row	Column	Method 1 Value	Method 2 Value	
Modified TargetCompou	d Compound Name=Acetone	RetentionTime	6.19412532042729	6.2	

To generate audit reports

### To generate audit reports

- **1** Open the MassHunter Quantitative Analysis program.
- 2 Open a Quantitative Analysis batch.
- **3** Click **Report > Generate**.
- 4 In the Generate Report dialog box, click New.
- 5 Click Add Template, then find and select the report template that you want to use.

📅 Report Method Edit (Quantitative Analysis)										
File Edit Tools										
🖞 🤊 🕫 🎥 🛋 🖌 🔜 🖆										
Templates Results Graphics settings										
Template	Report mode	Destination file	Publish format	Language	Page Size	Printer		Open published file	Post Process	Audit Trail Report
C:\MassHunter\Rep\AuditTrail.report.xml	Batch	<ul> <li>AuditTrail.pdf</li> </ul>		<default></default>	✓ Letter	•	•		<none></none>	- ☑
•										4
Add Template Remove Template										Edit Post Processes
									Save & Exit	Exit



Generate Report		
Batch file:		
Batch folder:	M:\mhqt\a-pf-b0701-21830\ProjectFiles\Data	a\QQQ\Drugs(
Batch file:	DrugsOfAbuseDemo-small.batch.bin	Browse
Report folder:		
M:\mhqt\a-pf-b0701	-21830\ProjectFiles\Data\QQQ\DrugsOfAbuse\Q	Browse
Report method:		
M:\mhqt\a-pf-b0701	-21830\ProjectFiles\Data\QQQ\DrugsOfAbuse\DOA	ReportMetho
	Choose New	Edit
Samples/Compounds:		
All samples	Choose samples	
All compounds	Choose compounds	
Generate:	· · · · · · · · · · · · · · · · · · ·	
<ul> <li>Generate reports</li> </ul>	now	
🔲 Open repo	ort folder after reports generated	
🔘 Queue report tasl	k	
✓ Start Quer	ue Viewer	
		Cancel
		Cancer

6 In the **Report Method Edit** window, select **Audit Trail Report** for the template that you just selected. Click **Save & Exit**.

**Figure 4** Quantitative Analysis Generate Report dialog box

7 In the Generate Report dialog box, click OK.

# To check integrity of batch files

Do this step to check whether any files in a batch have been improperly changed. You can check only the files on the local MassHunter Workstation, not the files on the ECM Server.

This tool checks all files that are in a selected folder, such as batches (\*.batch.bin files), acquired data files (\*.d files), and report results (\*.report.results.xml files). Checksum values (Hash codes) are checked for all file types. In addition, Audit Trail values are checked for batch and results files.

- 1 From the Windows Start menu, click All Programs > Agilent > MassHunter Workstation > Quant Tools > Check Batch Files.
- 2 In the Check Batch Files program, click File > Select Folders.
- 3 Click Add.
- **4** Select the folder of interest in the Browse For Folder dialog box. Typically, you will select the **MassHunter/Data** folder or a folder in that folder.

Browse For Folder	? 🛛
Bing appsbore     Bootpdg     Bootpdg     Chemical bab/ctionary     Containers     Containers     Dota     Containers     Dota     Do	8
🖻 🗀 Databases	×
	OK Cancel

**Figure 5** Browse For Folder dialog box

- **5** Click **OK** on the Browse For Folder dialog box, then click the **OK** button in the Check Batch Files dialog box.
- 6 Click the **Run** button **□** or in the toolbar or click **CheckBatch** > **Start Check Batch** to start enecking files in the selected folder.
- 7 Review the results displayed in a table in the Check Batch File window. Files that have a security problem are indicated with a marked check

box in the first column of the table. If a problem was detected with either the **Hash Code** (Checksum) or the linked **Audit Trail** for that file, an exclamation mark (!) in a red circle appears in those columns as shown in Figure 6.

In this example, the checksum file is missing from several data files. If a data file is acquired when the Data Acquisition Compliance software is disabled, the checksum file is not created.

🛃 Che	eck Batch Files									
File	Edit View Check Batch Help									
: 🗁   i	🖪 💁   🕑 💷   🔂   💿									
Error	File Path	Туре	Hash	Audit Trail	Data	Analysis	Last Written Time	Messages	· ^	
	C:\MassHunter\Data\SulfaDrugs\SulfamixPI	Sample	~							
	C:\MassHunter\Data\SulfaDrugs\SulfamixPI	Sample	~							
	C:\MassHunter\Data\SulfaDrugs\Sulfa_SIM	Sample	<b>V</b>						_	<b>F</b>
	C:\MassHunter\Data\SulfaDrugs\Sulfa_SIM	Sample	<b>V</b>							Error
	C:\MassHunter\Data\SulfaDrugs\Sulfa_SIM	Sample	<b>v</b>						Ξ	indicators
	C:\MassHunter\Data\SulfaDrugs\Sulfa_SIM	Sample	<b>V</b>							maroutore
	C:\MassHunter\Data\SulfaDrugs\Sulfa_SIM	Sample	<b>V</b>							
	C:\MassHunter\Data\SulfaDrugs\Sulfa_SIM	Sample	<b>V</b>							
	C:\MassHunter\Data\SulfaDrugs\QuantRep	ReportR	<b>V</b>		1	10/11/20	10/11/2010 10:02 PM			
	C:\MassHunter\Data\SulfaDrugs\QuantRep	ReportR			3	10/18/20	10/18/2010 12:16 PM			
~	C:\MassHunter\Data\Dynamic MRM\DMRM	Sample						Checksum	file not found.	
~	C:\MassHunter\Data\Dynamic MRM\DMRM	Sample						Checksum	n file not found. 🗸	
<									>	
Done								Total: 3	5 Errors: 16	

Figure 6 Errors after running the Check Batch Files tool

- 8 (*optional*) Click **View > Show Error Records Only** to display only the rows (files) that have error conditions. Click the command again to return to the full display of data.
- **9** (optional) Copy the entire table to another application.
  - a Click Edit > Select All.
  - **b** Click **Edit > Copy**.

The data can then be pasted into a word processing or spreadsheet application.

To cancel the selection for the entire table, select other cells, rows, or columns with the mouse.

To check integrity of batch files

**10** (optional) Copy selected data to another application.

- a Drag the mouse to select the cells, rows, or columns of interest.
- **b** Click **Edit > Copy**.
- **c** The data can then be pasted into a word processing or spreadsheet application.
- **11** (*optional*) Save the results in a file.
  - a Click File > Export.
  - **b** Select a location for the export file.
  - **c** Enter a name for the export file.
  - **d** Select the format for the export file: **.CSV**, **Tab-delimited (.TXT)**, or **.XML**.
  - e Click the Save button.
- **12** When you have finished checking files, click **File > Exit** to close the Check Batch Files window.

### **To view Audit Trail**

Do this step to check audit trail entries for a batch. Audit trail information is available for all batches that were created with the **Enable Audit Trail** check box marked on the New Batch dialog box.

- If not already open, open the batch of interest by clicking File > Open Batch.
- 2 If the batch has not yet been analyzed, click **Analyze > Analyze Batch**.
- **3** Click **Tools > Audit Trail** in the Quant application window. The Audit Trail dialog box opens. See Figure 7.

Name 🛛	User V	Tim	e	47	Action	V	Reason	7	Comment	V	Succeeded V	Error Message	∀ In S
CmdNewBatchT	MHIN	5/9/2007 12:0	03:48 PM		Create new batch D:\Data-	-T					<b>V</b>		
CmdImportSam	MHIN	5/9/2007 12:0	04:04 PM		Add samples from worklist						>		
CmdStartMetho	MHIN	5/9/2007 12:0	4:14 PM		Start method editing						>		
CmdImportMeth	MHIN	5/9/2007 12:0	04:14 PM		Import method from file D:	L					×		
CmdApplyMetho	MHIN	5/9/2007 12:0	4:21 PM		Apply method to all sample	S					<		
CmdMethodClear	MHIN	5/9/2007 12:0	4:22 PM		Clear method						V		
CmdEndMethod	MHIN	5/9/2007 12:0	4:22 PM		End method editing						V		
CmdAnalyze	MHIN	5/9/2007 12:0	04:33 PM		Analyze batch						<		
CmdSaveBatch	MHIN	5/9/2007 12:0	04:50 PM		Save batch D:\Data-Triden	it					V		
CmdOpenBatch	PATR	2/4/2011 12:1	18:34 AM		Open batch C:\Build\Quan	t					×		
CmdAnalyze	PATR	2/4/2011 12:1	18:39 AM		Analyze batch						<		
ValidateUser	PATR	2/4/2011 12:3	35:26 AM		Validate user and password	d							
													·

Figure 7 Audit Trail dialog box

4 (optional) Click a cell in the Comment column for an action that was performed in the current session. You can change or add entries in the Comment column for actions that were performed in the current session. These actions are indicated by a marked check box in the In Session column for their row.

Audit Trail														(
Name 🛛	User V	Time	V	Action 🛛	7	Reason 🛛	r	Comment 4 V	Suco	eeded	V	Error Message 🛛	In Sessio	n V
CmdAnalyze	MHIN	5/9/2007 12:04:33 PM		Analyze batch	T		Ť			<ul> <li>Image: A set of the set of the</li></ul>				_
CmdSaveBatch	MHIN	5/9/2007 12:04:50 PM		Save batch D:\Data-Trident	-		Ť			<b>V</b>				_
CmdOpenBatch	PATR	2/4/2011 12:18:34 AM		Open batch C:\Build\Quant	Т		Т	This action was performed t		<ul> <li>Image: A set of the set of the</li></ul>			>	
CmdAnalyze	PATR	2/4/2011 12:18:39 AM		Analyze batch			Г			~			>	
ValidateUser	PATR	2/4/2011 12:35:26 AM		Validate user and password	Т		Т						>	
CmdManuallvInt	PATR	2/4/2011 12:35:26 AM		Manually integrate compou-	Т		Т					Exception has be	×	

Figure 8 Adding a comment to an action performed in this session

#### **Administration Tasks**

To view Audit Trail

- Filter by Name 5 Audit information can be filtered to make it easier to review as shown in the following example.
  - **a** Click the **Filter** icon in the **Name** column heading to open a list of commands.

Audit Trail									
Name $ abla  abla $	User ⊽	Time	V	Action V	Reason	V	Comment 🛛	Succeeded V	Error Message
(AII)	<u>^</u>	2/4/2011 12:35:26 AM		Validate user and password					
(Custom)		5/9/2007 12:04:14 PM		Start method editing				<	
(Blanks)	= .	5/9/2007 12:04:50 PM		Save batch D:\Data-Trident				<ul> <li>Image: A set of the set of the</li></ul>	
(NonBlanks)		2/4/2011 12:18:34 AM		Open batch C:\Build\Quant			This action was performed t	Image: A start of the start	
CmdAnalyze CmdAnalyMathedTeAllSample		5/9/2007 12:03:48 PM		Create new batch D:\Data-T					
CmdEndMethodEditing	° .	5/9/2007 12:04:22 PM		Clear method				<	
CmdImportMethodFromFile	¥	2/4/2011 12:35:26 AM		Manually integrate compou					Exception has b
CmdImportSamplesFrom	MHIN	5/9/2007 12:04:04 PM		Add samples from worklist:				<ul> <li>Image: A start of the start of</li></ul>	
CmdImportMethodFromFile	MHIN	5/9/2007 12:04:14 PM		Import method from file D:\				<	
CmdEndMethodEditing	MHIN	5/9/2007 12:04:22 PM		End method editing				<b>V</b>	
CmdApplyMethodToAllSa	MHIN	5/9/2007 12:04:21 PM		Apply method to all samples				<ul> <li>Image: A set of the set of the</li></ul>	
CmdAnalyze	MHIN	5/9/2007 12:04:33 PM		Analyze batch				<	
CmdAnalyze	PATR	2/4/2011 12:18:39 AM		Analyze batch				<b>V</b>	

Figure 9 Filter options in the Audit Trail program

**b** If you select **CmdAnalyze**, then only the analyze actions will appear in the Audit Trail table.

Audit Trail													
Name	$\nabla \mathbf{T}$	User 🗸	_	Time	V	Action	V	Reason	V	Comment	V	Succeeded V	Error Message
CmdAnalyze		MHIN	5/9/2007	12:04:33 P	м	Analyze batch						<b>~</b>	
CmdAnalyze		PATR	2/4/2011	12:18:39 A	М	Analyze batch						×	

Figure 10 Filtered results in the Audit Trail program

**c** To return to the full display, click the **Filter** icon in the **Name** column heading and select **All** from the list of commands.

Group by<br/>Command6Audit information can be grouped by command as shown in the<br/>following example.

**a** Right-click the **Name** column, and click **Group by Name** from the shortcut menu. The results are listed grouped by the name of the command.

Audit	Trai	il									
User	V	Time	7	Action	Y	Reason	V	Comment	V Succeeded V	Error Message 🗸	In Session 🛛
🗷 Nam	e:V	alidateUser (1 item)									
🗉 Nam	e : C	mdStartMethodEditin	ng (1 item)								
🗄 Nam	e : C	mdSaveBatchTable	(1 item)								
🗄 Nam	e : C	mdOpenBatchTable	(1 item)								
🗉 Nam	e : C	mdNewBatchTable (	(1 item)								
🗉 Nam	e : C	mdMethodClear (1 i	tem)								
🗉 Nam	e : C	mdManuallyIntegrat	ePeak (1 item)								
🗄 Nam	e : C	mdImportSamplesFi	romWorklist (1	item)							
🗄 Nam	e : C	mdImportMethodFro	mFile (1 item)								
🗉 Nam	e : C	mdEndMethodEditin	g (1 item)								
🗷 Nam	e : C	mdApplyMethodToA	ISamples (1 it	em)							
🗉 Nam	e : C	mdAnalyze (2 items	)								

Figure 11 After using the Group by Name command

**b** To view the actions for a particular command, click the + icon next to the name of the command. See Figure 12.

Audit 1	rail											
User	▼ Tir	ne 7	7 Action	V	Reason	V	Comment	V	Succeeded	✓ Error Message	V In Session	V
🗄 Name	: ValidateUser (	1 item)										
🗏 Name	: CmdStartMeth	odEditing (1 ite	em)									
MHIN	J 5/9/2007 12:0	)4:14 PM	Start method editing						<b>~</b>			
🗄 Name	: CmdSaveBatcl	nTable (1 item)	)									
🗉 Name	: CmdOpenBatc	hTable (1 item	)									

Figure 12 After clicking + icon in the Audit Trail program

- c Click the icon to close the list.
- **d** To return to the regular display, right-click the **Name** column, and click **Group by Name** again from the shortcut menu.
- **Sort Table 7** To sort the actions in the audit trail table, click the column heading that you want to use for sorting.

#### **Administration Tasks**

To view Audit Trail

**Export Table** 8 Right-click the table and click **Export** from the shortcut menu.

- **a** On the Export dialog box, select the folder and enter a **File name** for the export file.
- **b** Select the **Type** for the export file (Excel .xlsx, CSV .csv, Tab Delimited .txt, or XML .xml).
- **c** Click the **Save** button.
- Print or9Right-click the table and click **Print** or **Print Preview** from the shortcut<br/>menu.

Custom

Filterina

- **10** You can select other criteria for filtering audit trail information.
  - **a** Click the **Filter** icon in the column heading of interest to open a list of commands, as shown for the **Name** column in Figure 13.

Audit Trail									
Name 🗸 🗸	User ⊽	Time	V	Action 🖓	Rea	ison 🏾 🏹	Comment 7	Succeeded V	Error Message
(AII)	<u>^</u>	2/4/2011 12:35:26 AM		Validate user and password					
(Custom)		5/9/2007 12:04:14 PM		Start method editing					
(Blanks)	E	5/9/2007 12:04:50 PM		Save batch D:\Data-Trident				Image: A start and a start	
(NonBlanks)	_	2/4/2011 12:18:34 AM		Open batch C:\Build\Quant			This action was performed t.		
CmdAnalyze CmdAnalyMathodToAllSample		5/9/2007 12:03:48 PM		Create new batch D:\Data-T				Image: A start and a start	
CmdEndMethodEditing	° .	5/9/2007 12:04:22 PM		Clear method				Image: A start and a start	
CmdImportMethodFromFile	¥	2/4/2011 12:35:26 AM		Manually integrate compou					Exception has b
CmdImportSamplesFrom	MHIN	5/9/2007 12:04:04 PM		Add samples from worklist:				<b>V</b>	
CmdImportMethodFromFile	MHIN	5/9/2007 12:04:14 PM		Import method from file D:\					
CmdEndMethodEditing	MHIN	5/9/2007 12:04:22 PM		End method editing					
CmdApplyMethodToAllSa	MHIN	5/9/2007 12:04:21 PM		Apply method to all samples				<b>V</b>	
CmdAnalyze	MHIN	5/9/2007 12:04:33 PM		Analyze batch					
CmdAnalyze	PATR	2/4/2011 12:18:39 AM		Analyze batch				Image: A start and a start	

Figure 13 Commands available after clicking the Filter icon in the Name column

- **b** Select **Custom** to open the Filter Criteria dialog box.
- **c** Open the list of **Operators** and select one, such as **Equals**, **Does not equal**, **Less than**, and **Greater than**.
- **d** Select the operand to use from the **Operands** list. The items in the list depend on which column you select in step **a**.
- e (*optional*) To add more criteria to the filter, click the Add a condition button. Click either And conditions or Or conditions for the filter. If you click And conditions, then all conditions must be true to include the row.
- f Click **OK** to filter the Audit Trail table using the specified criteria.
- **g** To return to the full display, click on the **Filter** icon in the column heading and select **All** from the list of commands.

### **To protect Excel reports**

This topic applies to only the **User Management and Audit Trail Only** mode. In **Compliance** mode, if multiple Excel reports with the same name are generated, ECM keeps all versions. Existing files are not overwritten.

Reports generated by MassHunter Workstation Quantitative Analysis software as Excel worksheets (.xlsx files) are not intended to be edited. Take these steps to make sure that the files are not improperly changed after the report is generated.

- Customize the templates used to generate the reports to use password protection. Do this in the Options section of the template.
- Use Excel Viewer to review reports. Excel Viewer does not allow files to be edited. The Excel Viewer loads more quickly than the full Excel program.
- Visually compare Excel reports to detect changes.
  - **a** Open both reports in Excel and select the **Calibration** tab in each report.
  - **b** Click the **View > View Side by Side**.
  - c Click View > Synchronous Scrolling if it isn't selected.
- Use a third-party tool to compare two Excel documents. Some tools allow you to compare all sheets that have the same names in two workbooks and is most useful for Quant reports that have been generated with the same template. You can specify that deleted, added, and changed data be reported on separate worksheets, and that the compared sheets be replicated into a new report workbook for easy review.
- Generate PDF files of your reports.
  - **a** Install Adobe Acrobat and specify a folder to store the generated PDF files.
  - **b** Analyze your batch with MassHunter Workstation Quantitative Analysis software.
  - c Save the batch. Click either File > Save or File > Save As.
  - d Click **Report > Generate** to open the Report dialog box.
  - e If Adobe PDF is not the default printer, then click Advanced. Click Next until the Reports page in the Report wizard is displayed. Select

a template and a printer. Click the **Next** button until the final page of the wizard. Then, click the **Finish** button.

- f If Adobe PDF is the default printer, then select a Template file and click the OK button.
- **g** Open the **Queue Viewer** program from the Report menu to monitor the progress of report generation.
- **h** The PDF report files (.pdf) that are generated can have signatures, approval workflows, comments, and password-protection features enabled.

### To change global settings

This topic applies only to User Management and Audit Trail Only mode.

Do this step to set certain global settings for MassHunter Quantitative Analysis Software.

- **1** Open the ATM Configuration tool. See "To open the ATM Configuration tool".
- **2** Click **Settings** in the navigation pane.
- **3** Mark the settings that you want to set for all users on that workstation.



Figure 14 The Settings pane on the right side

4 Click File > Save.

Require Logon at<br/>application startRequires users to log in with a Windows user account to start the MassHunter<br/>Quantitative Analysis program. This user account is used for Audit Trail, User<br/>Validation, and Role-based command security. If not marked, then the user<br/>session account is used. This option is useful if you are running Quantitative<br/>Analysis on the same computer that is used to acquire data from the<br/>instrument. In that case, a different user can perform Quantitative Analysis<br/>while data is being acquired, and both users will be identified.

### Administration Tasks To change global settings

Always Enable Audit trail when creating a new Batch	Creates audit trails for all batches. When enabled, the Enable Audit Trail check box at the bottom of the New Batch dialog box will be unavailable at all times.
Load settings from	Allows you to load an ATM Configuration from a specified path name. Click the Browse button to select the XML file to use. Loading settings from a file is useful for larger labs that may want to maintain a central ATM configuration file for use on all systems and not have to configure settings on individual computers.

# Reference

# Users/Groups/Roles/Privileges/Commands

Access to MassHunter Data Acquisition and Quantitative Analysis data and commands is controlled by how Users, Groups, Roles, and Privileges are set up on the OpenLAB ECM server. Access can also be set up for an individual instrument to overwrite access that is set up on the OpenLAB ECM server.

Note that a user's access to the Quantitative Analysis files and functions is determined by the Role that is assigned to the User or the Group to which the User is assigned, and the Privileges assigned to the Role.

In **Compliance** mode, Users and Roles are assigned to Groups on the ECM server. ECM Roles associated with Quantitative Analysis Command Groups in the Audit Trail Map (ATM) program. You can also accomplish the same thing by assigning Privileges to Roles on the ECM Server. Either way, changes affect all Users in the ECM Account.

Term	Description
User	Each person who needs to run MassHunter software or access MassHunter objects (data, methods, worklists, sequences, and tune files) needs an individual User account. Users can be managed by your organization's Windows domain function, or added to the OpenLAB ECM server in the BUILT-IN domain.
Groups	Similar Users can be organized into Groups. You can use Groups to control and change access and audit requirements to an entire group of Users at once. The use of Groups is optional. You can assign Roles directly to Users.
Privileges	Privileges determine the tasks that Users are allowed to do in the MassHunter or OpenLAB ECM programs.
Commands	Commands are the tasks that Users are allowed to do in the MassHunter Quantitative Analysis program. You can configure the audit requirements for each Command individually.
Command Groups	Command Groups are collections of Quantitative Analysis Commands that are organized by function. Users are given access to Commands by being assigned to the Roles that are associated with Command Groups.
Roles	Roles are used to link Privileges and Commands to Users. You can assign Roles to Users or Groups. Each Role determines what the Users in that Role can do (Privileges and Command Groups).

### Table 2Overview of Compliance terms

# **MassHunter Quantitative Analysis Commands**

MassHunter Quantitative Analysis includes four Command Groups. Each Quantitative Analysis Role can be associated with one or more Command Groups.

**Batch Analysis** The Batch Analysis Command Group contains commands that are used for routine batch analysis tasks, such as add/remove samples, analyze/calibrate/integrate the batch, and save.

Figure 15Batch Analysis commands

#### Reference

**MassHunter Quantitative Analysis Commands** 

MethodThe Method Development Command Group includes commands for routineDevelopmentmethod development, such as Create, Import, and Save a new Method.

C ATM Configuration	
File Help	
Batch Analysis	Paguirad User Pala to avacute commands in this group
<ul> <li>Method Development</li> </ul>	Required User Kole to execute commands in this group
CmdAddMethodCalibration	Method Development
CmdAddMethodTargetCompound	Approver
CmdAddMethodTargetQualifier	:Archive Administrator
CmdAppendMethodFromAcquisition	:Archive Agent
CmdAppendMethodFromFile	BDM User
CmdAppendMethodFromScanData	Contributor
CmdAverageQualifierRatios	- Folder Administrator
CmdAverageRetentionTime	Pander
CmdCleanUpCalibrationTable	Batantian Managan
CmdCopyCalibrationLevels	
CmdCreateAcqMethodFromQuantSIMMethod	Scheduler Administrator
CmdCreateLevelsFromCalSamples	Scheduler Agent
CmdCreateLevelsFromFile	:System Administrator
CmdCreateMethodFromCefFile	Analysts
CmdCreateMethodFromChromatographicData	V Developer
CmdCreateMethodFromLibrary	
CmdCreateMethodFromScanData	
CmdCreateNewMethod	
CmdCreateSerialDilutionLevels	
CmdImportMethodFromAcquisition	
CmdImportMethodFromBatch	
CmdImportMethodFromFile	
CmdImportMethodFromSample	
CmdRemoveMethodCalibration	
CmdRemoveMethodTargetCompound	
CmdRemoveMethodTargetQualifier	
CmdSaveMethodAs	
CmdSetBatchExtendedProperty	
CmdSetCalibrationAttribute	
CmdSetMethodCalibrationAttribute	
CmdSetMethodTargetCompoundAttribute	
CmdSetMethodTargetCompoundAttributes	
CmdSetMethodTargetQualifierAttribute	
CmdSetMethodTargetQualifierAttributes	
CmdSetTargetCompoundAttribute	
CmgSetupManuallyIntegratePeak	
CmdSetupManuallyIntegrateQualifierPeak	
CondChittPatentianTime	
CondStructUnetendEndition	
Cinustartiviethodtolting	
CincopdateMassAssignment CmdUpdateQualifierRation	
CmdIndateRetentionTime	
Cmdl IndateRetention TimeFromISTD	
ondopastenetentionminerrontoro	

Figure 16 Method Development commands

#### Batch Review The Batch Review Command Group contains one Command.



#### **Report** The Report Command Group contains two Commands:



### Comparing Compliance Mode with other Quantitative Analysis Modes

This topic lists the differences between a standard workflow installation and one running in **Compliance** or **non-Compliance** mode.

#### Login

In **Compliance** mode, the login dialog box lets you select the OpenLAB ECM server to which to connect.

🚍 OpenLAB ECM Login			
Server URL:	http://quant-dsdev/ecm		
User name:	admin		
Password:	рикин	]	
Account:	demo		
Domain:	BUILT-IN		
	Login Cancel	]	

Figure 17 OpenLAB ECM Login

### **User Access**

In **Compliance** mode, user access to MassHunter commands and functions are controlled on the ECM Server. Users (and Groups) are assigned to Roles on the ECM Server. Privileges (or Command Groups) can be assigned to Roles on either the MassHunter Workstation (via ATM Configuration) or the ECM Server.

### Paths

In **Compliance** mode, location of files that are stored on the OpenLAB ECM server are indicated by a four-level path in the format \*Location*\*Cabinet*\ *Drawer*\*Folder*, and not by the standard Windows folder path. Files can be stored only at the *Folder* level.

**Comparing Compliance Mode with other Quantitative Analysis Modes** 

#### Log books

In **Compliance** mode, log books are archived on the OpenLAB ECM server. You can only change or view log book settings if you have the appropriate permission.

### **File Extensions**

In **Compliance** mode, all data, method, sequence, and tune files are stored on the OpenLAB ECM server. The file extensions in an ECM system are:

- For method files, .m.ssizip or .quantmethod.xml
- For data files, .d.ssizip
- For tune files, .xml
- For batch files, .batch.bin.ssizip
- For libraries, .l.ssizip, reflibrary.xml or mslibrary.xml

Batch.bin files are convert to .ssizip format to hold their Audit Trail files.

#### **Command Groups**

In **Compliance** mode, the Command Groups and the commands that belong in each group cannot be changed. You cannot add new command groups, nor can you remove or add commands to an existing Command Group.

# **Retrieve versus Checkout (Compliance Mode)**

When users log into ECM directly from Internet Explorer, they may, depending on their privilege, be able to retrieve or checkout a file.

• Retrieved files are not locked in ECM.

The file in ECM is still available to anyone else.

• Checked out files are locked in ECM.

Only the individual who checked out the file can check the file back in to ECM, or undo the Checkout. However, with appropriate permissions, users can retrieve a copy of a checked out file.

Users can access and check out files from ECM in two ways:

- By logging in to ECM via Internet Explorer
- By logging in to ECM via MassHunter

Regardless of how a user accesses ECM, any file that is checked out of ECM remains unavailable to MassHunter until it is checked back in to ECM, or the checkout is canceled.

To open a batch in Quantitative Analysis or an Analysis in Unknowns Analysis with the intent to edit or generate reports, you must check out the file first.

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### In This Book

This guide describes how to install, set up, and use **MassHunter Quantitative** Analysis in Compliance or User Management and Audit Trail Only mode.

This guide applies to version B.07.01 SP1 or higher of the MassHunter **Quantitative Analysis** software until superseded.

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G3335-90214 **Revision A0** 



**Agilent Technologies**