
Analyst MD 1.7.3 Software

Release Notes



This document is provided to customers who have purchased SCiEX equipment to use in the operation of such SCiEX equipment. This document is copyright protected and any reproduction of this document or any part of this document is strictly prohibited, except as SCiEX may authorize in writing.



Software that may be described in this document is furnished under a license agreement. It is against the law to copy, modify, or distribute the software on any medium, except as specifically allowed in the license agreement. Furthermore, the license agreement may prohibit the software from being disassembled, reverse engineered, or decompiled for any purpose. Warranties are as stated therein.

Portions of this document may make reference to other manufacturers and/or their products, which may contain parts whose names are registered as trademarks and/or function as trademarks of their respective owners. Any such use is intended only to designate those manufacturers' products as supplied by SCiEX for incorporation into its equipment and does not imply any right and/or license to use or permit others to use such manufacturers' and/or their product names as trademarks.



SCiEX warranties are limited to those express warranties provided at the time of sale or license of its products and are the sole and exclusive representations, warranties, and obligations of SCiEX. SCiEX makes no other warranty of any kind whatsoever, expressed or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, whether arising from a statute or otherwise in law or from a course of dealing or usage of trade, all of which are expressly disclaimed, and assumes no responsibility or contingent liability, including indirect or consequential damages, for any use by the purchaser or for any adverse circumstances arising therefrom.



(GEN-IDV-09-10816-D)

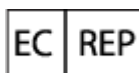
For In Vitro Diagnostic Use. Product(s) not available in all countries. For more information contact your local sales representative or refer to sciex.com/diagnostics.

Rx Only.

Trademarks and/or registered trademarks mentioned herein, including associated logos, are the property of AB Sciex Pte. Ltd., or their respective owners, in the United States and/or certain other countries (see sciex.com/trademarks).

AB Sciex™ is being used under license.

© 2022 DH Tech. Dev. Pte. Ltd.



Leica Microsystems CMS GmbH
Ernst-Leitz-Strasse 17-37
35578 Wetzlar
Germany



AB Sciex Pte. Ltd.
Blk33, #04-06 Marsiling Industrial Estate Road 3
Woodlands Central Industrial Estate, Singapore 739256

Contents

1 Introduction.....	6
How to Use These Release Notes.....	6
2 New in Version 1.7.3.....	7
New Features and Enhancements in Version 1.7.3.....	7
Fixed Issues in Version 1.7.3.....	9
3 Notes on Use.....	15
Guidance for Antivirus and Backup Software.....	15
Guidance on File Encryption.....	15
Notes on Use for the Analyst MD 1.7.3 Software.....	16
4 Known Issues.....	25
Audit Trail.....	25
Configure — Administration/Security.....	25
Configure — Acquisition Method Editor.....	26
Tune and Calibrate — Compound Optimization.....	27
Tune and Calibrate — Instrument Optimization.....	27
Tune and Calibrate — Manual Tuning.....	27
Acquire — Acquisition Method Editor.....	28
Acquire — Method/Batch Editor/Queue Manager.....	29
Explore.....	30
Quantitate.....	31
Analyst MD Software Reporter.....	32
Installer.....	32
Peripheral Devices.....	32
ExionLC 2.0 Series Devices.....	32
Jasper Systems, ExionLC Systems, Shimadzu CL, and Shimadzu LC Systems.....	34
CTC PAL / Leap Devices.....	36
Agilent Devices.....	36
A Programs and Utilities.....	37
Contact Us.....	38
Customer Training.....	38

Online Learning Center	38
SCIEX Support	38
CyberSecurity	38
Documentation	38

Thank you for choosing SCIEX to supply your LC-MS/MS system. We are pleased to give you the Analyst MD 1.7.3 software, which provides liquid chromatography-tandem mass spectrometry (LC-MS/MS) functions.

The *Release Notes* describe the features in the Analyst MD 1.7.3 software as well as troubleshooting guidelines. Use these release notes for reference as you become familiar with the software, and for future reference. For installation and software compatibility information, refer to the document: *Software Installation Guide*.

Note: The Analyst MD 1.7.3 software is only supported on the Windows 10 operating system.

How to Use These Release Notes

To help you understand what is new and what is fixed relative to your current Analyst MD software version, the *Release Notes* for the Analyst MD 1.7.3 software have been structured so that you only have to read the sections that are relevant to you.

Everyone should read [Notes on Use](#), as this section applies specifically to issues that are known in the Analyst MD 1.7.3 software.

Note: To view the enhancements, fixed issues, and known issues for previous versions of the Analyst MD software, refer to the document: *Release Notes* for previous versions.

Note: The numbers in parentheses are reference numbers for each issue or feature in our internal tracking system.

This section describes the enhancements and fixes in the Analyst MD 1.7.3 software. To view the enhancements and fixes for the previous releases of the Analyst MD software, refer to the document: *Release Notes* that came with that version of the software.

New Features and Enhancements in Version 1.7.3

The following features and enhancements are available.

Scheduled Ionization

The Analyst MD 1.7.3 software supports a new feature called Scheduled Ionization, which helps to reduce the risk of instrument contamination. It supports both electrospray ionization (ESI) and atmospheric pressure chemical ionization (APCI) modes.

Support for electronic licensing

The Analyst MD 1.7.3 software supports node-locked licensing (assigned to one computer).

Support for Office 365

The Analyst MD 1.7.3 software supports Office 365. The software no longer supports Microsoft Office 2010.

Support for ADD 1.3

The Analyst MD 1.7.3 software adds support for the Analyst Device Driver (ADD) 1.3, an LC device control application for the Analyst MD software. For more information, refer to the Analyst Device Driver (ADD) 1.3 documentation.

Support for Shimadzu LC-40 systems

The Shimadzu LC-40 system, including systems using the fluorescence detector, RF-20AXS, is now supported.

Support for Shimadzu LC-20 and LC-30 systems using a new LC driver

The Shimadzu LC-20 and LC-30 systems, including the PDA, can now be controlled through the Integrated System Shimadzu LC-20/30 Controller.

Support for ExionLC 2.0 systems

The ExionLC 2.0 system, including the Diode Array Detector (DAD), multiwavelength detector, wash system, and column switching with an individual valve control option, is now supported.

Storage of LC auxiliary traces with the datafiles for faster troubleshooting

The auxiliary traces, including the pressure trace, if enabled, are stored with the acquired data files for the Jasper LC, ExionLC, ExionLC 2.0, Shimadzu LC-20, and Shimadzu LC-30 system controlled in either of the Integrated System Shimadzu LC Controller or the Integrated System Shimadzu LC-20/30 Controller, and the Shimadzu LC-40 system. Refer to the document: *Laboratory Director's Guide* that comes installed with the software.

A new injection counter feature

The injection counter feature was implemented for proactive column maintenance to prevent a batch stop. Refer to the document: *Laboratory Director's Guide* that comes installed with the software.

Support for software installation with a deployment tool, such as MECM, using a non-administrator account

Support for software installation with a deployment tool, such as Microsoft Endpoint Configuration Manager (MECM), using a non-administrator SYSTEM account to push software installation remotely and securely.

Support for saving the Jasper, ExionLC, and Shimadzu LC configuration with each individual hardware profile

For a hardware profile created in version 1.7.3 or later, the LC configuration is saved in each hardware profile for all of the devices controlled by the MIMIC2 driver so that each hardware profile can have a different LC configuration. This includes the Jasper LC, ExionLC, Shimadzu LC-20, and Shimadzu LC-30 systems configured with the Integrated System Shimadzu LC-20/30 Controller, and Shimadzu 40 systems. The user does not need to reconfigure the LC when switching between hardware profiles that include different LC configurations using one of these LC systems.

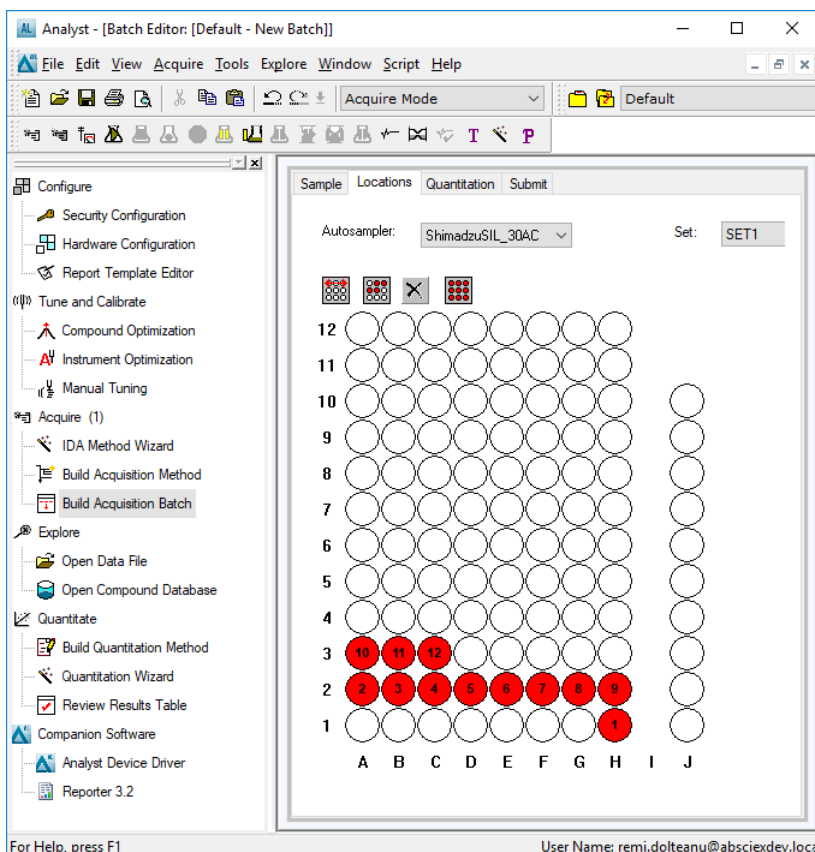
Support for a new plate layout for the Shimadzu SIL-30ACMP and Shimadzu SIL-30AC autosamplers configured through the Integrated System Shimadzu LC Controller

The 96 deep well plate layout with alphanumeric numbering starting from the bottom left of the plate, horizontally, is supported. Refer to the figure: [Figure 2-1](#). The following are applicable when this new plate is selected for the Shimadzu SIL-30ACMP or Shimadzu SIL-30AC autosampler:

- The locations in the Batch Editor are assigned numeric values, arranged horizontally.

- The Batch Editor supports the fill down feature.
- The Batch Editor can export to txt and csv files.
- The Batch Editor can import from txt and csv files.

Figure 2-1 Batch Editor: Locations Tab



Note: This support was first added in the **Analyst 1.7.2 Patch for Shimadzu LC30 Plate Layout.** (AN-1571)

Fixed Issues in Version 1.7.3

The following issues have been fixed in this release:

The Quantitation audit trail incorrectly added the word Samples to the change descriptions

In the Quantitation audit trail, the word "Samples" was incorrectly added before the text, "The concentration/calculated concentration units were changed to..." in the **Change Description**

New in Version 1.7.3

when the concentration or calculated concentration units were changed for either the analyte or internal standard. (AN-430, AN-2259)

Starting batch acquisition after equilibration but before a Jasper, ExionLC, or Shimadzu LC column oven temperature had reached the setpoint prevented the acquisition from starting.

If an acquisition method containing a Jasper, ExionLC, or Shimadzu LC column oven was used to equilibrate the system, and the column oven temperature had not reached the setpoint, then selecting **Start Sample** in the toolbar prevented the batch acquisition from starting. (AN-1670)

Using special characters such as a period in file names could cause the file to be corrupted

Special characters such as a period could not be used in file names. For example, `tes.t` could not be used for a Results Table file name. Using a special character in a file name might corrupt the file. (AN-1697)

The time stamp for a quantitation method was updated when the method was opened

If a quantitation method was opened and then closed without saving any changes, the time stamp of the quantitation method was changed to the time when the method was opened. (AN-1715)

The Analyst MD software might stop responding if too many samples were removed at the same time from a Results Table

After a Results Table was created, removing 35 or more samples at a time from the Results Table might cause the Analyst MD software to stop responding. (AN-1527)

Acquisition using the ExionLC PDA Detector or the Shimadzu CL Detector in 2D mode might stop occasionally

When the ExionLC PDA Detector or a Shimadzu CL Detector was used, acquisition might stop occasionally. When this occurred, the Analyst MD software aborted the acquiring sample and then stopped the queue. This issue occurred when the PDA Detector was used in 2D mode. As a result, it was recommended to use the PDA Detector in 3D mode to minimize the likelihood of this occurring. (AN-718)

For Jasper, ExionLC or Shimadzu CL system devices, the batch was suspended when a vial was missing even if the queue option Fail whole batch in case of missing vial was not selected

When a batch that contained a sample whose vial location was missing a vial was submitted and if the Queue option **Fail whole batch in case of missing vial** was not selected, then

the sample experienced an acquisition error and the rest of the samples in the batch were suspended. (AN-965)

The software could not import .txt files in the Batch Editor on Windows 10 computers

On Windows 10 computers, the user received a message about unexpected column name when importing a txt file in the Batch Editor. Clicking **YES** or **NO** caused all of the information from the txt file to be filled in a custom column or unable to import the batch file. (AN-1207)

The following issues fixed in the Analyst MD 1.6.3 HotFix 2 are included in the Analyst MD 1.7.3 software:

An error could occur if Start Over was used to run the instrument optimization again with the Adjust mass calibration only option

If the **Start Over** option in the Results Summary dialog of the Instrument Optimization was used to run the instrument optimization again with the **Adjust mass calibration only** option, then a run-time error might be encountered at the end of the optimization and the results were not shown properly. (AN-1582)

An error occurred during the import of txt files into the Batch Editor on workstations configured with the Windows 10 operating system

If a txt file was imported into the Batch Editor on workstations configured with the Windows 10 operating system, then a message about an unexpected column name was shown and the file could not be successfully imported into the batch. (AN-1787)

Audit Trail events might be recorded in an incorrect project

If a different project was selected from the **Projects** list after a chromatogram or a Results Table was opened in the Analyst MD software, and then the open chromatogram or Results Table was printed, the printing event was incorrectly recorded in the Audit Trail for the currently selected project. (AN-389)

Pre-defined reasons were not always available for selection

When only some of the Audit Trail events had a pre-defined reason listed in the audit map, if any of these events occurred, then the appropriate pre-defined reason might not have been available for selection in the list of reasons for change. Even when all of the Audit Trail events had a pre-defined reason listed in the audit map, if an event occurred, then only some of the corresponding pre-defined reasons were available for selection in the list of reasons for change. (AN-733)

FIA optimization might have failed on computers configured with the Windows 10 operating system

On computers configured with the Windows 10 operating system, FIA optimization might have failed when source and gas parameters, such as IS or TEM, were optimized. (AN-1453)

Change Description information was missing in the Audit Trail for a specific event

When samples were being added to or removed from a Results Table, if the user clicked **OK** before selecting a sample, then the **Change Description** column was blank for this event in the Audit Trail. If one or more samples were selected before the user clicked **OK**, then the **Change Description** information was recorded correctly. (AN-1494)

Spectra were missing from the Instrument Optimization Results

On computers configured with Windows 10 and updated with specific Windows update packages, some of the spectra were missing in the Instrument Optimization Results file. (AN-1522)

Incorrect user information was recorded in the Audit Trail when a user logged onto the Analyst MD software in Mixed Mode

On systems configured with the Windows 10 operating system, if users logged on the Analyst MD software in Mixed Mode after their Windows user profile was deleted or before their profile was created, then the user who was previously logged on the Analyst MD software was identified as the current logged-on user in the Analyst MD software. In addition, the incorrect user information was recorded in the Audit Trail. (AN-1575)

The ExionLC pump used with an external autosampler continued to pump after the autosampler stopped due to an error

If an ExionLC pump was used with an external, non-ExionLC autosampler in an acquisition method, then the ExionLC pump continued to pump after the autosampler stopped due to an error. (AN-1601)

The following issues fixed in the Analyst MD 1.6.3 HotFix 1 are included in the Analyst MD 1.7.3 software:

The Audit Trail did not record the 0% change in peak area when the quantitation method changes did not result in a peak area change

The Audit Trail recorded the modification event for the quantitation method but it did not record the result of a 0% change if, when the method is changed, the peak area was not changed. (AN-723)

Unsuccessful login event was recorded incorrectly in the Instrument Audit Trail

The event for an unsuccessful log on to the Analyst MD software was incorrectly recorded in the Instrument Audit Trail as "user successfully logged out". In Mixed Mode, the Instrument Audit Trail also recorded the Windows login user name instead of the user name with the failed attempt. (AN-763)

The batch was suspended when a vial was missing even if the queue option Fail whole batch in case of missing vial was not selected

If a Jasper, ExionLC, or Shimadzu CL system is used, then the acquisition batch was suspended when a vial for injection was missing, regardless of whether the **Fail whole batch in case of missing vial** option was selected in the Queue Options dialog. (AN-965)

Users could not configure the Left Solvent or Right Solvent for Agilent 1260 pumps in the Analyst MD software Method Editor

If the active hardware profile contained an Agilent 1260 pump, then the user was unable to configure the Left Solvent or Right Solvent because there was no option to choose A1 or A2, B1 or B2. (AN-1356)

Sample acquisition from the Control Rack did not function for the ExionLC Multiplate Autosampler and any ExionLC autosampler using the Rack Changer

If an ExionLC Multiplate Autosampler or Rack Changer was used, and a vial position from the Control Rack (vial positions from 20001 to 20010) was selected for a sample in a batch, then the acquisition of this sample was stopped. (AN-1420)

Sample acquisition from the Control Rack did not function for the Shimadzu Multiplate Autosampler and any Shimadzu autosampler using the Rack Changer

If a Shimadzu Multiplate Autosampler or Rack Changer was used, and a vial position from the Control Rack (vial positions from 20001 to 20010) was selected for a sample in a batch, then the acquisition of this sample was stopped. (AN-1421)

Equilibration was unsuccessful when a Shimadzu Rack Changer or Multiplate Autosampler was used

If the system was equilibrated using a method that used a Shimadzu Rack Changer or Multiplate Autosampler, then the pumps and the column oven did not recognize the method settings. This resulted in an unsuccessful equilibration. (AN-1451)

Users could not submit a batch using an acquisition method that included a Rack Changer for a Shimadzu SIL 20A or Shimadzu SIL-20A XR autosampler

If an acquisition method that uses a Rack Changer for the Shimadzu SIL 20A or Shimadzu SIL-20A XR autosampler was used, then the **Submit** button was not available. A message about the method being invalid and the **Plate Code** specified in the batch not matching the **Sample Rack** selected in the method was shown. (AN-1437)

An LC-MS acquisition method containing a Jasper, ExionLC, or Shimadzu CL LC system might only have printed correctly the first time

If an LC-MS acquisition method contained a Jasper, ExionLC, or Shimadzu CL LC system, then the method might have printed correctly the first time using **Print Pane** after the method was opened. The LC portion of the method might not have been printed when printing additional times. (AN-1074)

The following is a list of known issues, limitations, and important notes on using the software. There might be other issues or limitations with the Analyst MD software in addition to those listed in this section. If you find additional issues, contact SCIEX at sciex.com/request-support.

In general, if the Analyst MD software is not responding, then restarting the software might help. If this does not work, then restart the computer to make sure that the AnalystService and device drivers restart.

CAUTION: Potential Loss of Data: Acquire data to a local drive. In the case of network data acquisition, there is the possibility of loss of data integrity if the network connectivity is interrupted during acquisition.

Guidance for Antivirus and Backup Software

Many widely-used applications can be configured to either disable real-time protection or ignore certain file types (for example, rdb, wiff, and wiff.scan). Failure to configure them in this way might result in either failed acquisitions or acquisitions that take longer to complete than expected.

In general, the antivirus or backup software on the Analyst MD software acquisition workstations should be configured in a manner that disables real-time scanning and archiving of files in the Analyst Data folder. For more information, refer to the section: [CyberSecurity](#).

Exclude the following list of programs from consideration by real-time scanning:

- C:\Program Files(x86)\Analyst
- D:\Analyst Data

If the Agilent Infinity II and the associated Device Driver for the Analyst MD software is used:

- C:\Program Files (x86)\AB SCIEX\AnalystDeviceDriver

For the latest guidance on cybersecurity for SCIEX products, visit sciex.com/productsecurity.

Guidance on File Encryption

When using software to encrypt the contents of your hard drive, make sure that the Analyst Data folder is not encrypted. Encrypting this folder might result in failed acquisitions or corrupted data files.

Notes on Use for the Analyst MD 1.7.3 Software

It is recommended that the computer be restarted at least once a week.

- As of the Analyst MD 1.6.3 HotFix 3, the About Analyst MD dialog has been changed to include the software version information in the following format, without a build number:
 - Analyst MD Software
 - Published Version: 1.6
 - Full Version: 1.6.3 (1.6.3 HotFix 3)
- Do not add or delete the Analyst MD software files with File Explorer. Such an event is not audited by the Audit Trail in the Analyst MD software. (AN-967)
- When a user who has no rights to overwrite a method or a batch file tries to overwrite a file, then a new instance of the file is created using the same file name with a number added to the end of the file name. (AN-2688)
- Do not create a project with the name `API Instrument` on a network root directory. Doing so causes instrument audit trail events to be recorded in the API Instrument project on the network instead of the local API Instrument project. (AN-2290)
- To import a batch file into the Analyst MD batch editor, make sure that the number of columns to be imported is 255 or fewer. The number of characters per data line must also be no more than 2000 for the imported text file. (AN-1146)
- The special characters \$ and % are not supported in the Analyst MD software for user names. Avoid using these special characters in user names. (AN-2369)
- The Analyst MD software only supports up to 5 channels, including the reference channel, if selected, for a 2D or Signal Data mode acquisition using a Shimadzu PDA or an Agilent DAD. (AN-1796)
- For acquisition using a Shimadzu or ExionLC PDA or an ExionLC 2.0 DAD, the Analyst MD software data stores either 2D data or 3D data depending on whether 3D is selected in the acquisition method. If 3D is selected, then only 3D data is stored in the data, even if 2D is also selected in the method. (AN-1148)
- The Q1 and Q3 masses for the MRM transitions in the quantitation method must be the same as those in the acquisition method. A wrong transition might be processed for an analyte if the data file is processed using a quantitation method that was created using a representative sample acquired with a slightly different acquisition method than the one used to acquire the data file being processed. For example, this would happen if a specific transition is slightly different in the quantitation method than in the acquisition method, and if another transition in the acquisition method is almost the same as this transition in the quantitation method. (AN-2131, AN-2314)

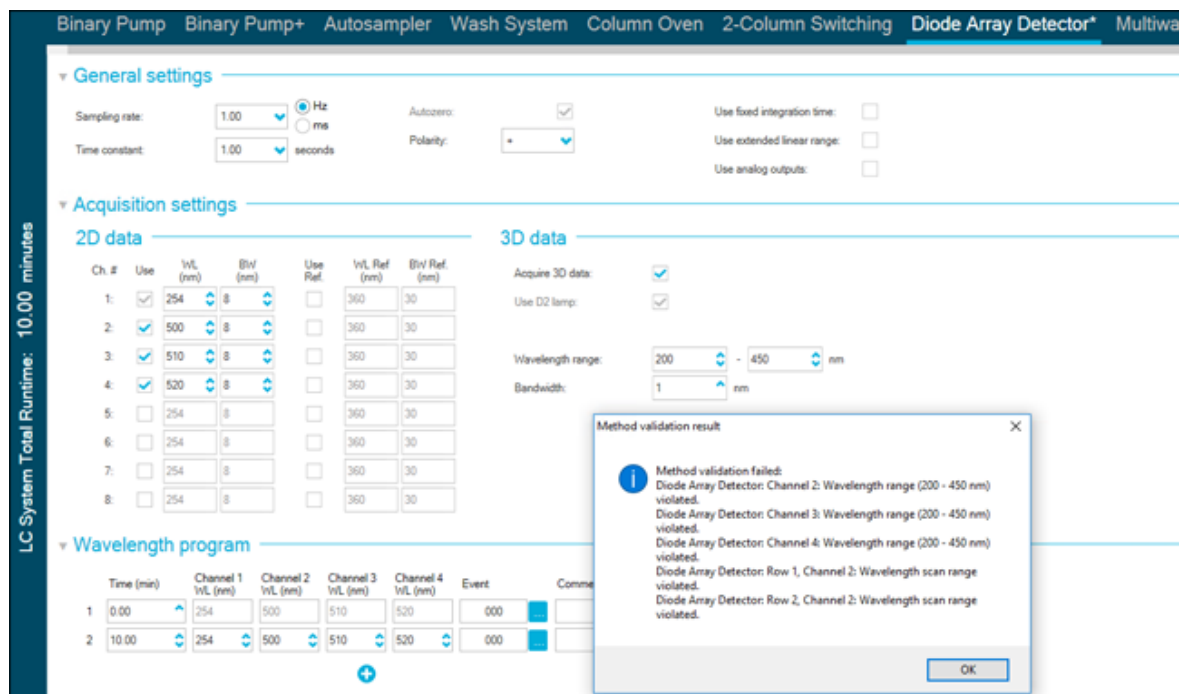
- If a platechanger is configured with a Shimadzu LC 40 autosampler, then the 3-plate rack and the platechanger cannot both be selected in the **Rack Code** column for different samples in the same batch. When creating a batch, either use Plate Position 1, 2, or both in the 3-plate rack, or only the plates in the platechanger. (AN-2074)
- The default CUR setting has been changed to 35 for SCIEX 4500MD and Citrine systems, to decrease the risk of instrument contamination.
- Do not start Analyst MD software file names with “-” or any other special characters. This applies to files including, but not limited to, data files, method files, and results table files. It's highly recommended to start the file name with an alphanumeric character. (AN-2430)
- In the Analyst MD software version 1.6.3 and earlier versions, the audit trail **Full User Name** column showed the **Display Name** of the user account as stored in the Windows Server Active Directory. In the Analyst MD software version 1.7.3, the audit trail **Full User Name** column shows the **Full Name** of the user account as stored in the Windows Server Active Directory. The **Display Name** and **Full Name** of the user account are typically the same, but they do not have to be. The network administrator can make them distinct. (AN-2447)
- Each acquisition method is specific to a hardware profile.
 - If a user edits the hardware profile for a specific LC configuration setting, for example, the Solvent Valve for an ExionLC pump, then the acquisition methods created with the original hardware profile must be saved again after the edited hardware profile is activated. In addition, the LC hardware setting must match the LC hardware selected in the hardware profile. If a method created with the original hardware profile LC setting was used for acquisition under the current modified hardware profile LC setting, then the original hardware profile LC setting might be used for data acquisition using this method, depending on the LC hardware setting. The reason is that the hardware profile LC setting is saved in the acquisition method even though that setting is not part of the method editor. (AN-2455)
 - If a user edits a hardware profile containing a Shimadzu LC-20 series autosampler and clears the **Rinse Pump Installed** check box, then the acquisition methods created with one of these rinse mode options (before aspiration, after aspiration, before and after aspiration) using the original hardware profile must be saved again after the hardware profile is activated. (AN-1143)
- Internal rinsing in a Shimadzu LC system controlled through Integrated System Shimadzu LC Controller did not work properly in Analyst MD software version 1.6.3 and earlier versions. The defect is fixed in Analyst MD software version 1.7.3. Expect retention time shifts if an internal rinsing mode is used for the acquisition methods when they are used in Analyst MD software versions before and after the fix.
- If the stop time in the Analyst Device Driver (ADD) method is different than the MS stop time, then the time option for **StopTime** must be selected and the desired stop time entered. Do not use the default option, **As Injector/No Limit**, even if the gradient is defined in the

Notes on Use

Timetable. Otherwise, the LC controlled by ADD stops running the LC method at the MS stop time. (AN-2586)

- The following notes are applicable to ExionLC 2.0 systems:
 - If a cool oven temperature is used, then a setpoint of 5.5 °C is recommended as the lowest temperature. Do not use the lower safety limit, 5.0 °C, for a set point, because fluctuation to anything below 5.0 °C will cause a column oven error. The same applies to the upper limit. Use a set point lower than the upper safety limit, such as 84.5 °C or lower, to prevent a column oven error.
 - Make sure that the detector lamps are on and ready before starting acquisition.
 - If solvent level monitoring is used in the LC Integrated System Detailed Status window, then make sure that the current volume is correct before each batch acquisition.
 - When loading the sample trays, make sure to follow the plate layout in the software, or refer to the document: *ExionLC 2.0 Hardware User Guide*.
 - If samples are acquired to the same data file using a method containing a ExionLC 2.0 system diode array detector (DAD) in a 3D data mode with a high sampling rate, then delays in completing the sample acquisition might be observed while the data file size increases. This is because the Analyst MD software tries to collect all of the data points from the LC driver. As a result, the sample acquisition might seem to take much longer than the method run time. However, the data is for the correct run duration. To avoid delays between samples caused by the transfer of a large number of data points, acquire each sample to a separate data file.
 - When creating an LC method for a system with a DAD, make sure that the wavelength defined for each channel and each row in the Wavelength program for the 2D data mode is within the Wavelength range defined for the 3D data mode, even if the 3D data mode is not selected. For an example error message that is shown when an invalid method is saved, refer to the figure: [Figure 3-1](#). The row number refers to the row in the Wavelength program.

Figure 3-1 Invalid ExionLC 2.0 DAD Method Error Message



- In cases where the computer is shut down or restarted unexpectedly while the hardware profile is active, the ExionLC 2.0 system might lose communication with the computer. Turn all of the ExionLC 2.0 system modules off and on to detect them again. (AN-1988)
- If any of the ExionLC 2.0 system modules goes into an error state because of an issue requiring no physical fix, then the Standby button (🔌) on the LC Integrated System Detailed Status window can be used to clear the error. Use this button to turn the LC modules off and then on again. However, a hardware profile deactivation and activation are still required. In the rare cases when this recovery approach does not work, deactivate the hardware profile, turn off the computer, turn all of the LC modules off and then on, and then turn on the computer again.
- If a batch contains an LC method with the pretreatment option set to **Use first destination vial**, then before the batch is run again or the same LC method is used in another batch, the first destination vial position must be reset. It is automatically reset when the system state changes to Standby and when the hardware profile is deactivated and activated. The user can also reset the first destination vial position in the following ways:
 1. Click **Reset vials** (⚙️) in the Autosampler pane of the LC Integrated System Detailed Status window. Then select **Reset destination vials**.

Notes on Use

2. Submit a batch containing a single sample that uses a different first destination vial position.

If **Use first destination vial** (FDV) is selected for pretreatment, then make sure that the last destination vial position (LDV) is valid for the rack type selected and the number of samples (n) to be included in the batch. Otherwise, batch acquisition will stop on the sample with an invalid destination vial number. The destination vial position is always equal to the destination vial position of the preceding sample, plus 1.

For samples 1, 2, 3, and 4, respectively, the destination vial positions will be FDV, FDV+1, FDV+2, and FDV+3. If the number of samples to be included in the batch is 30, with vial positions 11 to 40, and FDV is 51 on a 2 × 48 vial rack, then the $LDV = FDV + n - 1 = 51 + 30 - 1 = 80$.

Note: Make sure that a vial is present in every projected destination vial position.

- The detector lamp in an ExionLC 2.0 DAD or multiwavelength detector stays on if the system is left in Idle state after the hardware profile is activated and the system is not equilibrated or a batch is not acquired. To extend the detector lamp life time, do not leave the system idle for a long time immediately after activating the hardware profile. Either equilibrate the system or put the system in Ready state, and then let the system go to Standby state manually or automatically. (AN-2202)
- When the **Wait Time** is set to x ($x=0, 1, \dots, 10$) on a Jasper system, the acquisition does not start until the column oven has reached the set temperature and then has waited for x minutes. The **Wait for temperature equilibration before run** check box in the Method Editor has been removed for the Jasper system in this version of the driver software.
- For an ExionLC or Shimadzu CL system, with the **Wait Time** set to x ($x=0, 1, \dots, 10$) on the device, and the **Wait for temperature equilibration before run** check box selected in the acquisition method, the acquisition does not start until the column oven has reached the set temperature and then has waited for x minutes, when x does not equal 0. However, the acquisition starts immediately without waiting for the column oven to reach the set temperature when $x=0$. This is intentional. Make sure that the system is equilibrated before starting a batch.
- If a plate changer is installed with a Shimadzu LC-40 autosampler, then make sure that **Plate # 3** is not selected on the **3-Plate Rack** when saving and submitting a batch in one of the following ways:
 - Through the Analyst MD software
 - Through a vertical application

This plate position is reserved for moving a sample tray from a plate changer to the autosampler for sample injection and cannot be used for this configuration. (AN-1780)

- If a different LC stack than the one that was previously configured is going to be used with the mass spectrometer, then the user must complete LC auto-configuration again to activate a hardware profile containing the different LC, even when a previously created hardware profile is used. This issue occurs when the user changes between LC devices that are controlled by the Shimadzu MIMIC 2 driver on the same mass spectrometer. The LC devices using the MIMIC 2 driver include the Shimadzu LC-20/30, activated through the Integrated System Shimadzu LC-20/30 Controller, the Shimadzu LC-40, and the ExionLC systems. (AN-1826)

Changes to Instrument Optimization (First done in Analyst MD 1.6.3 HotFix 2)

- The results file for the Instrument Optimization results summary is now generated in PDF format.
- Microsoft Office 2013 or 2016 or Office 365 must be installed.
- Only the files installed by the Analyst MD software should be stored in the `D:\Analyst Data\Projects\API Instrument\Instrument Optimization\settings` folder. Customized csv files stored in this folder are not supported. (AN-1522, AN-1551)

Auditing

- In the Audit Map Settings for the Instrument Audit Trail, the following events, even if they are selected in the **Audited** column, are not used to audit events related to the Resolution Table or Calibration Table in the Analyst MD software:
 - Resolution Table(s) replaced
 - Resolution Table added
 - Mass Calibration Table and Resolution Table changed

Instead, the following four events are used for auditing the events of adding or changing the Resolution Table or Calibration Table:

- Resolution Table replaced - No Prompt
This event is used to audit Resolution Table changes using any method and to audit the printing of the Resolution Table.
- Mass Calibration Tables replaced
This event is used to audit Calibration Table changes made ONLY in the editor and to audit the printing of the Calibration Table.
- Mass Calibration Table added
This event is used to audit when a new Calibration Table is created.
- Mass Calibration Tables replaced - No Prompt
This event is used to audit the Calibration Table changes made through all the other methods other than those previously stated.

Notes on Use

Therefore, the use of the Full Audit Map for the Instrument Audit Trail, whether or not the Full Audit Map triggers an E-signature for the Calibration Table change, depends on how the changes were made, that is, in the Instrument Data Editor, by Instrument Optimization, through the Analyst Access Object (AAO), or in the advanced calibration table. A change to the Resolution Table, however, does not trigger an E-signature.

- The wiff and corresponding wiff.scan files are considered to be one data file and the file names must be identical. Do not rename part of the data file. Changing part of the data file name prevents the Audit Trail from recording the event correctly when a user attempts to open the data file. (AN-1370)
- Make sure that there is sufficient empty space on the C:\ drive for the Analyst MD software audit trail to function correctly. If the drive is full, then the audit trail might show 0 records, depending on the audit trail (atd) file size. If the C:\ drive becomes full, free up some space, and then the audit trail will show all of the records. (AN-1722)
- On a computer configured with the Windows 10 operating system, if the user who logs on to the Analyst MD software in Mixed Mode is a different user than the user who is logged on to the computer, then the Audit Trail record printing function is not available. The Windows 10 component that the Analyst MD software uses to print has a known limitation that prevents different users from printing. In addition, opening the Analyst MD software as a different user in Integrated Mode or Single User Mode is not supported. (AN-1358)

Updates to the removal and installation of the sMRM Calculator script

If the software has been upgraded to the Analyst MD 1.7.3 software from the Analyst MD 1.6.3 software, and if the sMRM Calculator script is currently installed on the system, then remove the script using the **Uninstall** or **Change a Program** option in the Control Panel, and then install the script again after the Analyst MD 1.7.3 software is installed. The script installer is located at C:\Program Files (x86)\Analyst\Scripts\sMRM Calculator.

Domain field is not available in the Analyst - Logon Information dialog

The **Domain** field has been removed from the Analyst - Logon Information dialog if the software is configured to use Mixed Mode security. The user name field can be in SAM (domain\username) or UPN (username@domain.com) format. (AN-1564)

The Settling Time field for *Scheduled* MRM algorithm experiments is disabled for all mass spectrometer models except for Citrine systems

As of the Analyst MD 1.7.3 software, the **Settling Time** field for *Scheduled* MRM algorithm experiments has been disabled for all mass spectrometer models except for Citrine systems. For other mass spectrometer models, the values being used are defined in the software and not in the user interface of the Method Editor.

Do not modify the computer date and time after the Analyst MD software is installed

Make sure that the computer date and time is correct on the computer before installing the Analyst MD software. After the Analyst MD software is installed, manually modifying the date and time will invalidate the license and cause users to be unable to log into the Analyst MD software.

The Review option is not supported when the Results Table uses certain layouts

When an internal standard is re-integrated, the **Review** button in the History column for the audit record for that operation is not available. This feature has been disabled. The **Review** option is not supported when the Results Table uses these layouts: Summary, Analyst Group, Sample Type. A message is shown prompting the user to change to either Full Layout or Analyte Layout for the analyte of interest. The Review option is also not supported if Peak Review is configured to review internal standards before all analytes. In this case, Peak Review shows the internal standard chromatogram and not the analyte chromatogram being reviewed. In the Peak Review Options, use either **Don't review internal standards** or **Review with each analyte**. (AN-1103)

The audit map for a Results Table has a different Modified date and time than the Modified date and time shown under the Projects node or in a Windows folder

In the Audit Trail Manager, the audit map associated with a Results Table (accessed under the Results Tables node) might have a different **Modified** date and time from its **Modified** date and time shown with the project node (accessed under the Projects node) or in a Windows folder. This can happen with Results Tables created with the factory-installed audit maps (cam files in the `Project Information` subfolder). To resolve this difference, in the Audit Trail Manager, select a project under the Projects node and then open the Settings tab. Select each factory installed audit map and then click **Save**. From this point on, the audit map dates and times for Results Tables created with the audit maps will match the dates and times shown with the project node.

This issue is applicable to all of the project folders that existed before the upgrade to the Analyst MD 1.6.3 software, and to the customer-created project folders (project folders other than `API Instrument`, `Default`, and `Example`) on an Analyst MD 1.6.3 software installation using an existing `Analyst Data` folder where no Analyst MD software is currently installed (Analyst MD software re-installation). The Analyst MD 1.6.3 software fresh installation using an existing `Analyst Data` folder and the three installed folders, `API Instrument`, `Default`, and `Example`, would not have this issue.

Delay Time behavior in an MRM scan is different from a Scheduled MRM scan

For a period that contains dynamic scans such as a *Scheduled* MRM algorithm experiment, a scan using DFT, or IDA experiments, the delay time should be less than the period duration. The MS acquisition duration is the **Duration** minus the **Delay Time** in minutes, and the MS period duration is the **Duration**. For a period that contains only non-dynamic scans such as one or more MRM experiments without being looped with a *Scheduled* MRM or a scan using DFT or an IDA criteria, the MS acquisition duration is the **Duration**, and the MS period duration is the **Duration** plus the **Delay Time** in minutes.

LC Help and Analyst MD Software Help

If an LC *Help* is open, then opening the Analyst MD software *Help* will automatically close the LC *Help*. If the user needs both *Help* files to be open, then open the LC *Help* after opening the Analyst MD software *Help*.

Translated Help files for the Jasper HPLC system are available on the Customer Reference DVD

The translated Help files for the Jasper HPLC system are available on the Customer Reference DVD. To use the Help, copy the Jasper Help in the language of choice from the DVD and then paste it on the computer Desktop.

For LC device methods, the default pump stop time is longer than the default MS stop time

For any LC pump such as the SCIEX Dx pump, an ExionLC pump, or a Shimadzu CL pump that is activated through the Sciex LC Controller, when an acquisition method is created in the Analyst MD software, the pump has a default **Stop Time** of 10 minutes and the Analyst MD software MS method is 5 minutes. The LC device method stop time should be adjusted appropriately.

The ExionLC 100 system turns off when it is put in Standby state

The ExionLC 100 system turns off when the Analyst MD software puts the ExionLC devices in Standby state, either when the user clicks **Standby** or after the batch finishes and the idle time specified in the Queue Options is reached. This happens only with ExionLC 100 system. The hardware profile might still be active at this time. To start the ExionLC 100 system, manually turn on the system again either from the Sciex LC Controller status dialog or from the LC system front panel.

The following is a list of known issues in the Analyst MD 1.7.3 software.

Audit Trail

Instrument Audit Trail records NA in the User Name column for the Queue event when batches are moved

The Instrument Audit Trail records NA for the user who moved the batches in the queue. To identify who moved the batches, search for the user name for the latest Security event with the **Change Description** "User successfully logged in", before the Queue event when batches were moved in the Instrument Audit Trail. (AN-1347)

The audit trail time stamp for the Results Table changes when the computer time is changed

When the computer time is changed, the audit trail time stamp for a Results Table reflects the change. However, the Project audit trail stays the same. (AN-746)

Audit maps and QuantSettings.sdb might get overwritten during a fresh installation

Audit maps and `QuantSettings.sdb` are overwritten during fresh installation of the Analyst MD 1.6.3 software using an existing `Analyst Data` folder. This happens if the time stamp of these files is before the time stamp of the factory shipped files. (AN-1101)

Configure — Administration/Security

A user logging on to a computer or the Analyst MD software for the first time might encounter an error when submitting a batch

When User Account Control (UAC) Settings is set to **Notify me only when apps try to make changes to my computer** or a higher level, and a user who is in the Analyst MD security database but has never logged on to this computer before tries to log in to the Analyst MD software for the first time, then a UAC dialog opens to ask permission to enter data in the User registry for the new user. Click **Yes** to continue. However, the project drop-down menu might appear empty, and the user might encounter an error when trying to submit a batch. If this error occurs, close the Analyst MD software, and then start the Analyst MD software again. (AN-2671)

The software window might resize upon activating a hardware profile with an LC system

When using a high-resolution monitor, the software window might resize upon activating a hardware profile with an LC system. This might affect viewing the LC detailed status information

Known Issues

and LC method content in the Method Editor. Should this issue occur, change the monitor resolution to a lower setting until the issue is resolved. In most cases, dropping the resolution to 2048 x 1152 or 1920 x 1080 can resolve this issue. For SCIEX provided monitors, a resolution of 1920 x 1080 is recommended. (AN-2699)

The Analyst MD software toolbar might not refresh properly on the Windows 10 operating system

On the Windows 10 operating system, the Analyst MD software toolbar might not refresh correctly and some icons might turn black. After the Analyst MD software window is minimized and then maximized, the user interface is refreshed correctly. (AN-1204)

Access to Hardware Configuration mode is restricted for a customized role without tune-related permissions

In the Analyst MD software, access to Hardware Configuration mode is not granted to a customized role unless one of the Tune operations is also allowed in Security Configuration when permissions are assigned to that role. (AN-479)

Configure — Acquisition Method Editor

The Auto Equilibration option is not working

The **Auto Equilibration** option in the Acquisition Method Editor is not working. When this option is selected, the auto equilibration duration should be added to normal step 0 equilibration time, which increases the equilibration time between samples. The auto equilibration duration is not being considered and the sample acquisition starts as soon as **Run** is clicked. (AN-784)

A manually created IDA method cannot be saved if a copied survey scan experiment is changed into a dependent scan

The user is unable to save an IDA method if an IDA dependent scan was created by copying an experiment from a survey scan and then changing it to a dependent scan. The workaround is to create an IDA dependent scan by adding an experiment. (AN-1038)

Copying and pasting a few cells in a *Scheduled* MRM algorithm method when the compound-dependent parameters are in the mass table does not work

In a *Scheduled* MRM algorithm method that contains compound-dependent parameters, when a few cells are copied from the mass table and an attempt is made to paste the copied content by clicking on the first cell in an empty row and then pressing **Ctrl + V**, two error messages about invalid compound-dependent parameter are shown and the copied content is not pasted. To avoid this issue, either copy and paste by selecting whole rows instead of individual cells or copy by selecting whole rows and then paste by selecting the last empty row.

In rare cases, switching from the **Advanced** option to the **Basic** option in a *Scheduled* MRM algorithm method, then copying one row in the mass table and pasting it, shows the following

message, To copy and paste data from one Mass Ranges table into another Mass Ranges table, the number of columns as well as the column headings in the source and destination tables must be the same. Add or remove columns from the destination table as required. Clicking **OK** on this message removes all of the existing rows in the mass table. Try to use one mode for copying and pasting in the mass table, and then switch mode. (AN-1061)

Tune and Calibrate — Compound Optimization

Total sample volume does not update when the total number of injections is changed in the FIA (Flow Injection Analysis) source parameters in Compound Optimization if the Shimadzu LC is connected

If one or more parameters are selected for optimization and the number of replicate injections for each parameter is changed, then the **Total # of injections** is updated correctly. However, the total **Sample Volume** does not update and stays 0 µL. (AN-610)

Compound Optimization does not start the integrated syringe pump for a SCIEX Triple Quad 3200MD system

Users can start the syringe pump using Manual Tuning or they can use an external syringe pump. (ST 11130)

Tune and Calibrate — Instrument Optimization

Instrument Optimization cannot be used if users do not have delete privileges for the API Instrument\Instrument Optimization folder

Users who do not have the Delete privilege for the Analyst Data\Projects\API Instrument\Instrument Optimization folder cannot use the Instrument Optimization module. Make sure that all users who need to use this module have Delete rights for this folder. (AN-593)

Tune and Calibrate — Manual Tuning

Updating resolution on-the-fly during data acquisition using a *Scheduled* MRM algorithm acquisition method in Manual Tuning causes the Analyst MD software to remain in acquisition

When a *Scheduled* MRM algorithm acquisition method is being run in Manual Tuning without the Q1/Q3 Resolution option selected, the sample acquisition or the queue cannot be stopped if the user changes the resolution settings on-the-fly on the Resolution tab. The computer must be started to regain the communication. To avoid this issue, do not change the resolution settings while running a *Scheduled* MRM algorithm acquisition method in Manual Tuning. (AN-1071)

Known Issues

The user is unable to paste a mass table in Manual Tune for all scan types

Without the Method Editor open, the user is unable to paste copied cells or rows from an Excel sheet to the mass table in Manual Tune. The workaround is to keep the Method Editor open, and then paste the copied content in the mass table in Manual Tune. (AN-980)

Application Event Log errors are generated while operating QTRAP 4500MD system in Manual Tuning

When the QTRAP 4500MD system is operated in the Manual Tuning, the Windows Application Event Log shows the following error: "DDMSMassSpec, Process.cpp, Line 2399, EF:0x20000016=Unknown word <DPF> read". This error can be ignored and it does not affect the system operation. (AN-265)

Offset drop from unit resolution for the SCIEX Triple Quad 3200MD systems

For SCIEX Triple Quad 3200MD systems, when tuning, set the correct Offset Drop from Unit Resolution values in the Tuning Options Resolution tab.

- In the Low Resolution group, in the Offset Drop from Unit Resolution box, type 0.03.
- In the Open Resolution group, in the Offset Drop from Unit Resolution box, type 0.5.

Acquire — Acquisition Method Editor

Deleting the last experiment might cause a change to a parameter value on the first experiment in an acquisition method

For a method with three or more experiments of the following scan types, whether the same kind or mixed, deleting the last experiment causes the precursor ions for the **product of, 1st precursor, 2nd precursor**, or **Loss of** field in the first experiment to be replaced with the precursor ions from the deleted experiment, regardless of whether the first and the deleted experiments have the same scan type. Other parameters and mass range are still for the original first experiment. The following scan types are the affected:

- EPI
- MS3
- Product (MS2)
- Precursor Ion (Prec)
- Neutral Loss (NL)

(AN-2276)

The IonDrive Turbo V ion source was not listed in the Experiment information

The ion source type for the IonDrive Turbo V ion source on Citrine systems is not listed in the printed Experiment information in printed acquisition methods. To avoid any issues, use File Info instead. (AN-1523)

Acquire — Method/Batch Editor/Queue Manager

The Internal Standards column in the Analytes table might auto-populate with internal standards from other data source

When a quantitation method is created in either Build Quantitation Method or Quantitation Wizard, the **Internal Standards** column in the Analytes table might auto-populate with internal standards from another data source if the Analytes table is filled out before the Internal Standards table of that data source. The workaround is to deselect the auto-populated internal standards when there are no internal standards used for the current data source, or select the appropriate internal standards, if used, in the Internal Standards table before selecting the analytes in the Analytes table for the current data source. (AN-2601)

The valco valve might not work properly if it is used with the Analyst Device Driver (ADD) software

The Valco valve might not work properly if it is used with the ADD software and Manual/AAO Sync is used for the **Synchronization Mode**. The issue might be resolved if **LC Sync** used for the **Synchronization Mode** is used. The Sync Cable is required to connect between the autosampler and the mass spectrometer. (AN-1481)

The user cannot import batch files in xls, db, or xlsx formats in the Batch Editor

Importing a batch file in xls, db, or xlsx format might cause an error and the batch file would not be successfully imported. The xlsx format is only available in the **Files of type** list if the installed Microsoft Office is a 32-bit application. To successfully import a batch file, make sure to save it as a tab delimited txt file with the first line starting with %header=SampleName. Refer to the example file DABImport.txt in the D:\Analyst Data\Projects\Example\Batch folder. If a csv format is to be used, then edit the file in Notepad and make sure that the first line is % delimiter=', ': and the second line starts with % header=SampleName. (AN-1282, AN-1234)

Spaces in csv or txt file imported for *Scheduled* MRM Pro algorithm method creation causes import to stop

(SCIEX 4500MD and Citrine systems) If the user is creating *Scheduled* MRM Pro algorithm methods by importing the mass table from a csv or txt file and if the Analyst MD software encounters a space, then the import will fail and software will report an error. Users can avoid this issue by deleting the spaces in between the delimiters of their csv or txt files after export, or by deleting the spaces from their method tables before exporting to csv or txt format. (AN-199)

The status of the integrated diverter valve is not updated when the diverter valve position changes

Known Issues

The status of integrated diverter valve is not updated when the diverter valve position changes, but the position does change. There is no impact on the data. (AN-662)

Sample Details in Analyst Queue shows Manual Sync instead of Manual/AAO Sync

In the queue for a batch submitted with a method using Manual/AAO Sync, when the sample status is viewed by double-clicking the hour-glass icon, the Sample Details dialog shows **Manual Sync** instead of **Manual/AAO Sync** in the **Sync Mode** field. This is only a display issue. There is no impact on the data. (AN-1011)

The user cannot delete the last row when there are more than the maximum number of MRM transitions in the acquisition method

When pasting more than the maximum limit of MRM transitions in the acquisition method, the user cannot delete the last row. Delete row n-1 and then edit the last row to include the information that was just deleted. (ST 6968)

Note: For SCIEX 3200MD systems, 300 MRM transitions are the maximum during acquisition of MRM data and 1000 MRM transitions are the maximum during acquisition of *Scheduled* MRM algorithm data. For Citrine and SCIEX 4500MD systems, 1,250 MRM transitions are the maximum during acquisition of MRM data and 4000 MRM transitions are the maximum during acquisition of *Scheduled* MRM algorithm data.

Explore

File Info pane saved to PDF file format appears empty when viewed in Adobe Acrobat

Select **Save to File** from the right-click menu in the file information pane of a data file, then save the file by choosing the PDF format. The saved PDF file seems to be empty when it is opened in Adobe Acrobat. To see the contents of the file, open the PDF in Chrome or Internet Explorer. Alternatively, the file information can be saved in RTF format, opened using Microsoft Word, and then converted to PDF. The converted file can then be opened properly with Adobe Acrobat. (AN-2670)

Auxiliary trace data is not populated in Explore in real time after MS stops scanning

If a sample using a longer LC method duration than the MS method duration is being acquired with auxiliary trace enabled, and the sample auxiliary data is viewed in real time in Explore mode, then the auxiliary trace data is not populated after the MS stops acquisition. (AN-2393)

LC method information might not be shown properly if the Show Next Sample, Show Previous Sample, or Go To Sample buttons are used when the File Info pane is open.

If the File Info pane for a data file is open in Explore mode, then clicking the **Show Next Sample**, **Show Previous Sample**, or **Go To Sample** icon in the top tool bar might cause the LC method properties to show improperly. The LC method information might not be shown in

full, and some of the period and experiment information might be repeated. If the issue occurs, then deactivate the hardware profile if it is active, close the Analyst MD software, and start the computer again. To avoid the issue, close the File Info pane before clicking these icons in the tool bar. (AN-1967)

Centroid data is not shown correctly

Centroid data is not shown correctly when the user averages scans and steps through the extracted ion chromatogram (XIC) to show the adjacent spectra. Instead of using Centroid scan mode, use Profile scan mode to show the data correctly. (AN-405)

Quantitate

With a Results Table containing more than one analyte in Full Layout, changing the Sample Type column dropdown selection and then immediately, without clicking anywhere else, changing to another table layout, can cause the Analyst MD software to either stop working or alter the sample type of the wrong row

When the user clicks on an item from the **Sample Type** list while the Results Table is in Full Layout, and then immediately selects a different table layout that reduces the total number of rows to be shown, the current row is not updated. As a result, the software uses the same current row to update the sample type text but that row number either is no longer shown, which causes an exception or corresponds to a different row in the new table layout. To avoid the issue, click in another cell in the Full Layout Results Table after changing the **Sample Type** for any sample, then change the table layout if required. (AN-2654)

Only values of 0 or greater were exported in Quantitate mode for DAD data

If a user exports data using **Save Active to Text File** from a Peak Review pane or window in Quantitate mode, then only positive data, 0 or greater, is exported to the text file for a DAD data. Negative numbers are not exported. To export a data list with both positive and negative numbers, use **Save As Text** in the Data List pane in Explore mode. (AN-1566)

The unit in the titles for the Analyte Concentration and Calculated Concentration columns in a Results Table is only for the first analyte

If a quantitation method used in a Results Table uses different units for different analytes, then the unit in the titles for the **Analyte Concentration** and **Calculated Concentration** columns in the Results Table is only for the first analyte. To view which units are used for all of the analytes, edit the Table Settings to show the **Analyte Units** column. (AN-1357)

Disabling a quantitation security setting causes errors when Results Table column settings are changed

Under Quantitation in the **Access to Analyst** list on the Roles tab in the Security Configuration dialog, if the **Disable, enable and clear audit trail** permission is disabled, then the user cannot change the column settings in a Results Table without receiving an error each time. To change or modify table settings, make sure that **Disable, enable and clear audit trail** is enabled for that role. (AN-1018)

Analyst MD Software Reporter

An incorrect operator might be shown in the Analyst MD software Reporter for samples appended to a data file

If samples were appended to an existing data file that was acquired by a different user from the current user who submitted the appended samples, then the Operator tag, if included in the report template, shows the name of the user that first created the data file for the appended samples, not the one who actually submitted those appended samples. (AN-1612)

Delete privileges are required to create a report using the Reporter software

Users need the delete privileges to a specific data folder to create a report using the Reporter software or save the report to that folder. (AN-358)

Installer

Message about DCOMPerm.dll might be shown during Analyst MD software installation

During the installation of the Analyst MD 1.7.3 software, a message "Cannot move DCOMPERM.dll while installing DCOMPerm. Win32 errorcode 262272. Please contact your software manufacturer." might be shown. Click **OK** in the message to continue with the software installation. This may be caused by CTC PAL scripts. If a CTC PAL autosampler will be used, test if the hardware profile with the CTC PAL autosampler can be activated after installation. If not, then contact SCIEX support at sciex.com/request-support. Otherwise, the software works as intended. (AN-767)

Peripheral Devices

ExionLC 2.0 Series Devices

The ExionLC 2.0 system status icon in the Analyst MD software is red but shows Ready

If an error occurs on the ExionLC 2.0 system, then the LC status icon in the Analyst MD software turns red but Ready might be shown as the LC status. To recover, deactivate the hardware

profile and then activate it again. Make sure that the detector lamps are on and ready before starting acquisition, especially after the system has gone through Standby state. (AN-1966)

The Analyst MD software shows the ExionLC 2.0 system in Wait state when it is in Standby state if the LC system contains a detector

If the ExionLC 2.0 system contains a DAD or Multiwavelength detector, then after the LC system and mass spectrometer go to Standby state, the Analyst MD software status icon for the ExionLC 2.0 system turns yellow, but the LC system state is shown as Wait. This occurs because the detector lamps are turned off when the system is in Standby state. This is a status display issue and does not affect system operation. (AN-1968)

A method cannot be saved when valve wash is selected in the ExionLC 2.0 wash system settings

Intermittently, when valve wash is selected in the ExionLC 2.0 wash system settings, the method might not save successfully, instead showing an error message "Error writing acquisition method to the file! Copy method failed." If this issue occurs, then do the following:

1. Deactivate the hardware profile and then close the Analyst MD software.
2. Delete or rename the `Configuration_Default.xml` file
(`C:\ProgramData\ExionLC2.0\Configurations`) and the `ExionLC2` folder
(`C:\ProgramData\SCIEX`).
3. Restart the computer.
4. Turn off all of the ExionLC 2.0 system modules and then turn them back on.
5. Create a new hardware profile, reconfigure the ExionLC 2.0 system, and activate it.
(AN-2246)

Every two data points are duplicated for the ExionLC 2.0 pressure trace

For the ExionLC 2.0 pressure trace, every two data points are duplicated. This is because the pressure values are collected at half of the frequency (0.5 Hz) of the publishing rate (1 Hz). In addition, the first data point at time 0.0 min for all of the auxiliary traces is artificial since the first actual point is usually collected at time greater than 0.0 min. (AN-2638)

Jasper Systems, ExionLC Systems, Shimadzu CL, and Shimadzu LC Systems

In Manual Tuning, all of the parameters for pump, autosampler, and system controller are not shown when LC method is selected for Jasper devices, ExionLC devices, or Shimadzu CL LC devices

When LC method is selected in the Manual Tuning mode for a hardware profile containing Jasper systems, ExionLC systems, or Shimadzu CL LC systems, the timetable (located on the right side of the Pump, Autosampler, and System Controller tabs) is not shown. To avoid this issue, create the acquisition method in the Acquisition Method Editor, save it, and then open it in the Manual Tune mode. (AN-644)

Some methods with errors from LC can be saved but cannot be opened

If an acquisition method that contains a Jasper, ExionLC, or Shimadzu CL LC system is saved, and it has an LC parameter that is outside of the allowed range, then the Analyst MD software generates an error about the wrong value but allows the user to save the method. However, this method cannot be loaded after being closed and cannot be used for acquisition. (AN-678)

When the Analyst MD software Remote Instrument status feature is used, the detailed status for a connected Jasper, ExionLC, or a Shimadzu CL LC system is not shown

The detailed status of the connected LC system is blank when viewed from the Remote Instrument Status. (AN-686)

Jasper devices, ExionLC devices, or Shimadzu CL LC devices: The Configuration UI dialog might open in the background behind all other open windows after a fresh Analyst MD software installation or after the computer is restarted

During hardware profile creation for a Jasper system, ExionLC system, or Shimadzu CL LC system, when the **Configure** button is clicked, the Configuration UI dialog might open in the background behind all other windows. This happens after installation or after the computer is restarted. To bring the ConfigUIDialog to the foreground (after clicking **Configure**), minimize all the open applications until the ConfigUIDialog is visible. Now, every time the **Configure** is clicked, the Configuration UI dialog always opens in the foreground. (AN-717)

Jasper, ExionLC, or Shimadzu CL LC configuration of a newly created or edited hardware profile is being applied to all existing hardware profiles containing Jasper devices, ExionLC devices, or Shimadzu CL LC series devices

If the configuration of a hardware profile containing a Jasper device, an ExionLC device, or a Shimadzu CL LC device is modified or if a new hardware profile containing any of these devices is created, then the configuration of existing hardware profiles containing any of these devices is also changed automatically. All configuration options such as Fast LC, psi units, relays, sync,

system pressure max, and so on, are saved to every other hardware profile containing a Jasper device, an ExionLC device, or a Shimadzu CL LC device, even if the edited or newly created hardware profile is not activated. For example, if there is an active hardware profile with binary gradient SCIEX Dx Pump and the user creates a hardware profile with isocratic SCIEX Dx Pump but does not activate the profile, then the active hardware profile becomes isocratic as well. (AN-943)

ExionLC Autosampler internal rinsing-related issue

In the acquisition method with ExionLC devices, if 1, 2, or 3 rinse solvents are selected in the Internal Rinse settings section, then the internal rinse does not take place. The workaround is to select 4 solvents to start the internal rinse. However, users must decrease rinse volume to compensate for the added rinse time. Also, to start the rinse process, use the following setting in the Rinse sequence: R0->None->None->R0. This issue might occur if the start or end of the rinse sequence is set to None. (AN-1086)

Acquisition using ExionLC PDA might intermittently fail when all samples are acquired to a single data file

When all samples are acquired to a single data file, especially when the data file is large, using the ExionLC PDA, the acquisition might intermittently fail. To avoid this issue, acquire each sample to a different data file (multiple wiff files). (AN-1823)

The room temperature trace is written when the LC system does not have a room temperature sensor

For the ExionLC and Shimadzu LC system with auxiliary trace enabled, the room temperature trace is written and stored with the data file when no room temperature sensor is present with the LC system. The trace might incorrectly show temperatures such as 650 °C. (AN-2559)

In Manual Tune, not all of the options for the modules are shown when an LC method is selected for Shimadzu LC-20/30 devices activated through the Integrated System Shimadzu LC-20/30 Controller, or for Shimadzu LC-40 devices

If an LC Method is selected in Manual Tune for a hardware profile containing Shimadzu LC-20/30 devices activated through the Integrated System Shimadzu LC-20/30 Controller, or for a hardware profile containing Shimadzu LC-40 devices, then the following options are missing from the right side of the module window:

- Time Program option, for all modules that have the Time Program option enabled in the Acquisition Method Editor
- Pretreatment option, for the Autosampler module
- Pump mode switching option (B. GE vs ISO), for the LC-40 Pump module
- Autopurge option, for the LC-40 Pump module

Known Issues

As a workaround for this issue, create the acquisition method in the Acquisition Method Editor, save it, and then open it in Manual Tune mode. (AN-1812)

SIL-20AC Pre-treatment autosampler does not work with the Analyst MD software

If the SIL-20AC pretreatment autosampler is used, then in the advanced injector washing program, the I.Rinse command does not work. To avoid this issue, use the Shimadzu AAO plugin version 5.4. (AN-468)

The Shimadzu stack does not go into Standby state when Standby is selected during equilibration

The Shimadzu stack does not go to Standby state when Standby is selected during the equilibration period. The mass spectrometer goes to Standby state but the pump and oven continue to run. To put the Shimadzu devices in the stack in Standby mode, press ready and then press **Standby** during equilibration. (AN-663)

CTC PAL / Leap Devices

The Locations tab does not show tray type or stacks correctly for a CTC autosampler with different stack types

If a CTC autosampler with different stack types is used, then the Locations tab in the Analyst MD 1.7.3 software does not show trays or stacks correctly, and it does not allow vials to be selected properly, which in turn prevents users from using the Locations tab to create batches. To avoid this issue, select **trays and sample locations** on the Sample tab in the Batch Editor. (AN-381)

Agilent Devices

Integrated Agilent LCs stop running the LC method at the mass spectrometer stop time not the pump stop time

If the mass spectrometer method duration is shorter than the Agilent LC method duration, both sample acquisition and the LC run stop at the mass spectrometer stop time. To avoid the issue, set up the acquisition method with the same stop time for the mass spectrometer and the LC method. (AN-2657)

Programs and Utilities

A

The following utility is installed with the Analyst MD software in the C:\Program Files (x86)\Analyst\Bin folder.

Table A-1 Utilities

Program	Description
Translat.exe	Utility to convert Agilent data files to the Analyst MD software data format and Macintosh Library files to the Analyst MD software library format. Enables creation of databases on SQL Server. Translat.exe does not work over a network for Agilent data.
CFR_FileCheck.exe	Utility to rerun the installation qualification test. It is accessible from the Windows Start menu.

Contact Us

Customer Training

- In North America: NA.CustomerTraining@sciex.com
- In Europe: Europe.CustomerTraining@sciex.com
- Outside the EU and North America, visit sciex.com/education for contact information.

Online Learning Center

- [SCIEX Now Learning Hub](#)

SCIEX Support

SCIEX and its representatives maintain a staff of fully-trained service and technical specialists located throughout the world. They can answer questions about the system or any technical issues that might arise. For more information, visit the SCIEX website at sciex.com or contact us in one of the following ways:

- sciex.com/contact-us
- sciex.com/request-support

CyberSecurity

For the latest guidance on cybersecurity for SCIEX products, visit sciex.com/productsecurity.

Documentation

This version of the document supersedes all previous versions of this document.

To view this document electronically, Adobe Acrobat Reader is required. To download the latest version, go to <https://get.adobe.com/reader>.

To find software product documentation, refer to the release notes or software installation guide that comes with the software.

To find hardware product documentation, refer to the documentation DVD for the system or component.

Note: To request a free, printed version of this document, contact sciex.com/contact-us.
