

MPX™ Driver Software

For Routine High Throughput LC/MS/MS

Version 1.2

Where to Get Help

Other Documentation

- MPX™ driver software Help
- *MPX™-2 High Throughput System Quick Reference Card*

Support

For support, contact AB SCIEX.

- Email: support@absciex.com
- Web: www.absciex.com

Changes from Version 1.1 to Version 1.2

Walk-Up Workspace

Walk-Up is a new scheduling workflow option that is performed through the MPX™ driver software user interface as an alternative to submitting batches through the Analyst® software or the Cliquid® software. This scheduling option provides the benefit of being able to multiplex samples from two different batches; this is not possible when submitting batches through Analyst software or Cliquid software.

Operating System Support

In addition to supporting Microsoft Windows XP with SP3 operating system, the MPX driver software now provides support for the Microsoft Windows 7 (32-bit) Professional operating system.

Cliquid® Software Support

MPX driver software version 1.2 provides support for Cliquid software version 3.2 only; previous versions of the Cliquid software are not supported.

Analyst® Software Support

In addition to supporting Analyst 1.5.1 software, the MPX driver software now provides support for Analyst 1.5.2 Software with HotFixes to February 2011.

Methods Workspace Enhancements

- Stream-neutral methods that allow samples to be submitted for analysis on any available stream can be created in the Methods workspace. Stream-neutral methods can also be used to equilibrate the MS and LC systems. This feature is available only on systems equipped with a CTC autosampler.
- In the Gradient pane, you can load an example TIC and then zoom in on a selected area.
- A new section, **Wash Options**, displays a list of configurable autosampler settings. Each setting offers a suggested value; however, the value can be modified, as required.

- A new option, **Undo all Changes**, has been added to the Methods section. Using this option, you can revert any modified LC conditions to the conditions contained in the original method.

Status Workspace Enhancements

- In the **Multi-Method Equilibration** section, you can equilibrate the MS system, and Stream 1 and Stream 2 of the LC system simultaneously using one, two, or three different methods.
- In the **Pressure** pane, you can zoom in or out of any area of the displayed pressure graph.

Acquisition Window Start Time Saved in the Analyst® Software Results Table

The acquisition start time is recorded in a custom defined column in the Results Table.

Known Issues and Limitations

Experiments should contain only one period

When the MPX™ driver software saves a method, it adjusts the duration of the MS method to match the acquisition window specified, but only if the experiment contains a single period.

Column temperature ignored

When you start an acquisition run using the MPX™-2 High Throughput System with a Shimadzu LC configuration, the system injects immediately, regardless of the column temperature. When this occurs, a warning appears, advising that the oven has not yet reached the required temperature. To avoid this, equilibrate the system before starting acquisition to allow the column oven to reach the appropriate temperature.

Decreased throughput when using acquisition methods with different ion source temperature settings

The mass spectrometer equilibration time cannot be predicted when the ion source temperature needs to be adjusted. Therefore, the MPX-2 High Throughput System cannot reach its optimal throughput when acquisition batches contain adjacent samples that use acquisition methods with different ion source temperature settings. A warning message appears when such a condition is detected.

The MPX™-2 High Throughput System does not support flow injection analysis (FIA)

The MPX-2 High Throughput System uses a loading pump to load a sample onto a column before acquisition begins. In FIA, where no column is present, acquisition does not begin early enough to detect the injected sample. The system is intended for routine high throughput analysis of established methods. For method optimization, you can run a single stream directly from the Analyst® software.

The Analyst® software may report that a method cannot be retrieved from the MPX™ driver software

In the Analyst software, when a method is saved, the software may report that the method could not be retrieved. This message appears while the LC method is being

retrieved from the MPX driver software and disappears after the method is retrieved. The saved method will correctly contain both the MS and the LC methods.

Methods created with an incompatible hardware profile may become corrupt

When a method is opened, the MPX driver software only validates the method to verify that it was created with a hardware profile containing the necessary mass spectrometer. Additional devices contained in the method are not validated against the hardware profile. Users can open, modify, and save invalid methods using the software, potentially corrupting these methods and preventing their use in other programs. Take care to open only those methods created specifically for use with the MPX driver software.

When working with the Cliquid[®] software, the *Inject Sample on Stream Number* file information may be incorrect

After acquiring samples through the Cliquid[®] software, the *Inject Sample on Stream Number* file information for samples injected from either stream is recorded as the stream number of the method used to build the test in the Cliquid software. That is, if a stream 2 method is used to build the test, all the samples will be recorded with an *Inject Sample on Stream Number* value of 2, regardless of the actual stream used. The stream number is correctly recorded under *Current Stream* in the file information.

Wash options from methods used in previous versions of MPX[™] driver software are not transferred to v1.2

When using a method from MPX driver software v1.0 or v1.1, the wash options are not carried over to v1.2. The default wash options from v1.2 are used until the method is opened in the **Methods** workspace and saved with new wash option settings.

Equilibration recommended after changing the Shimadzu pump min/max pressure settings

After making changes to the Shimadzu min/max pump pressure settings, AB SCIEX recommends that the system be equilibrated using the Analyst software or the Multi-Method Equilibration feature in the **Status** workspace of the MPX driver software to propagate the changes to the pumps before running samples. If equilibration is not performed, pressure settings may be applied inconsistently during acquisition of the first few samples after changes have been made.

When using *Walk-Up* mode, “Submitted by” information in .wiff file is not the name of the individual who scheduled the batch

When batches are scheduled using *Walk-Up* mode, the “Submitted by” field in the Acquisition Info section of the wiff file does not accurately identify the user that scheduled the batch in the Walk-Up queue; the name of the user logged on the Analyst software is displayed. However, the correct user information is stored in the “Log Information from Devices at Start of acquisition” section.

When using *Walk-Up* mode with a barcode reader, the barcode is not displayed immediately

When using *Walk-Up* mode with a barcode reader, the scanned barcode will only appear in the appropriate column for the sample after the sample has finished acquiring.

When working with the MPX™ driver software, users should have a minimum of read-only access to acquisition methods and batches

When working with the MPX driver software, users should have at least read-only access to all batches and acquisition methods to make sure the software functions as expected. For example, without a minimum of read-only access, the user may not be able to open methods, equilibrate the system, or submit batches using Walk-Up mode

When using MPX™ driver software with the Microsoft Windows 7 operating system the software may not immediately recognize a recovered stream (ST 31677)

When using the MPX driver software with Microsoft Windows 7 operating system, if the system goes into a fault state, you may have to click **Reset** a second time to enable the system to recover.

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