

## **General**

The Applied Biosystems/MDS SCIEX *Analyst™* ADC Bug Fix service pack fixes the following bugs in Analyst 1.1:

- Analyst crashing/locking up on batch submission with the ADC in the method.
- Inability to save the method without first checking and unchecking the Channel 1 checkbox in the method editor.
- Implements software smoothing algorithm to reduce noise seen by the ADC.
- The ADC data displayed on all channels is similar. (This is a bug from ADC Bug Fix 1.0 )
- The ADC method editor does not pick up the values that are configured for the device in the hardware profile. i.e. output voltage

The ADC Bug Fix requires 3 MB of disk space to install. This version of the service pack supercedes all previous versions and can be installed on top of any previous version of the ADC Bug Fix.

## **Known Problems and Limitations**

Please report any problems, limitations and feature requests via the website at:

<http://www.appliedbiosystems.com/>

or via e-mail at:

[support@sciex.com](mailto:support@sciex.com)

Known problems and limitations with this service pack:

- If loading a previously saved batch and the ADC method(s) used in the batch do not match with the current hardware profile, no warning is given and the batch can be submitted. However, starting acquisition with the submitted batch may result in errors. The work around is to make sure the methods specified in the batch do match with the current hardware configuration by opening the method editor for each method in the batch and seeing if any error is encountered.

The software smoothing algorithm utilizes oversampling of the input data with averaging of the oversampled data to reduce noise. Two parameters are involved with this algorithm:

**Averaging Interval** - The user-specified sampling rate will be multiplied by this value and data will be acquired with this rate. The data will then be averaged back to the user-specified sampling rate.

To remove smoothing of the data displayed this value can be set to 1.

**Maximum Sampling Rate** - If the specified value is below maximum sampling rate allowed by the ADC card (50,000), then the sampling will occur with this rate. The input data will then be averaged to produce data with user-specified sampling rate. In this case, **Averaging Interval** will be ignored.

By default, the Averaging Interval is set to 10 and the Maximum Sampling Rate is set to 50,000. These two parameters can be modified by editing the following registry keys (you must have administrator privileges on the computer to do this):

HKEY\_LOCAL\_MACHINE\SOFTWARE\PE  
Sciex\Analyst\Engines\DeviceDrivers\DDADConverter\Averaging Interval

HKEY\_LOCAL\_MACHINE\SOFTWARE\PE  
Sciex\Analyst\Engines\DeviceDrivers\DDADConverter\Maximum Sampling Rate

## **Installation Instructions**

**Before installing the service pack it is important to note that you must have administrator privileges for the computer you wish to install on. Contact your IT group if you are unsure what access rights you have.**

The installation of the ADC Bug Fix is accomplished through the ADC Bug Fix Installer. This program automatically places the required files in required folders. The ADC Bug Fix cannot be uninstalled separately. It can only be uninstalled by uninstalling the *Analyst*<sup>TM</sup> Software. The ADC Bug Fix can be obtained from the Applied Biosystems website at: <http://www.appliedbiosystems.com/>

### **Step 1. Log on to the local system with administrator privileges.**

You must have administrator privileges on your local workstation in order to perform the installation.

### **Step 2. Installing the service pack software.**

Run the ADC Bug Fix Installer, ADCFix.exe.

