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Varian MS Workstation 6.8 Service Pack #1

The software contained in this kit is an update to the Varian MS Workstation 6.8 software (P/N 03-914982-01:14) that was released previously. The Update corrects a number of problems identified since the release.

Installing the MS Workstation 6.8 Service Pack #1 Software

Verify that Version 6.8 of the MS Workstation is installed on your computer. You can do this by selecting "About..." under Help in the menu bar of any of the MS Workstation applications and checking the version number, or right-click on an open area of the MS Workstation Toolbar, select "About Workstation Toolbar" and check the displayed version number. If the displayed version number is not 6.8, then you must install MS Workstation Version 6.8 before you can install this Update.

If MS Workstation Version 6.8 is installed, you may install the Update by launching the setup.exe application in the Update directory on the Varian MS Workstation 6.8 CD or by launching the update from the Product Support Website (www.varianinc.com)

Use of Custom Report Templates in MS Data Review

In MS Workstation version 6.8, a new feature that was added to the MS Data Review application was the ability to print MS Access-based custom report templates when data files are reprocessed. However, for this feature to work properly, the report templates must have been created from a template model file (*.MDB file) installed with the version 6.8 software. Templates that were created in versions of the software prior to MS Workstation version 6.8, can not be printed from the MS Data Review software.

To create a new custom report template, click on the Custom Report icon on the MS Workstation toolbar and select "New Template". Next, select the template model to be used as a basis for the report, and then save the report template file to a name of your choice.

Changes/Corrections Since Version 6.8

Quadrupole MS (3X0-MS/1200/1200L)

Id: 5649	Title: Allow Pressure Units to be set from within Method Builder Component: Quad (General) Area: DAMeth - General Description: There should be a separate, independent way for the user to change the Pressure Units locally in the Method Editor. This is now accomplished via a radio button selection at the bottom of the Overrides tab on the Advanced Options Dialog.
Id: 5907	Title: Switching between Manual and Automatic API switches to APCI Component: Quad (General) Area: System Control - General

	Description:	The Manual/Automatic selection shouldn't switch the ionization mode as well.
Id: 5916	Title: Component: Area: Description:	Temperature 'Actuals' do not real-time update Quad (General) ModWin - Temperatures For the 1200L/320 in GC mode, from the Instr. Parameters dialog, EI/CI Source tab: the 'Actuals' field for the source and transfer line do not update in real-time. When the temps setpoints are changed(either from this tab or through a vent/cool-down action), the Actuals fields only update when the tab is 'refreshed' (leave the tab and come back).
Id: 5940	Title: Component: Area: Description:	Improper centroiding of SIM ions in profile data files Quad (General) ModWin - General When viewing the chromatogram of previously-acquired Profile data files in Chro, the resulting area can sometimes be calculated inaccurately if the current scan descriptor differs from that used when acquiring the data file.
Id: 5944	Title: Component: Area: Description:	False Failure in Diagnostics Quad (General) System Control - General Often see False Failures in diagnostics. This happens when using the "run all tests" button. The diagnostics that fail include the inlet, power and API tests.
Id: 5945	Title: Component: Area: Description:	Manifold temp should not drop when instrument is disconnected Quad (General) System Control - General The manifold temperature and the coil box temperature should be maintained even after closing down System Control. It takes a long time to get the manifold back to a stable temperature.

Id: 4816	Title: Component: Area: Description:	Add EFC test to Hardware Diagnostics 3X0-MS ModWin - General Implement a simple test to check if the EFC gas pressure calibration is still valid. If the test fails, then recommend performing pressure calibration. Disable the test for 1200 models.
Id: 5428	Title: Component: Area: Description:	Analyzer connection test 3X0-MS System Control - General When running the analyzer connection test: 1. If you choose the "stop testing" option, it leaves the calgas on. This should be restored to it's original condition (on/off). 2. If you choose to view the log, it displays the entire electronics diagnostics log, which might be confusing to a user who never knew these were linked in the old software.
Id: 5900	Title: Component: Area: Description:	EDR should stop the syringe pump when finished or on an error 3X0-MS ModWin - Auto Tune When EDR is run as a prelude to tuning and calibration because it has expired after 30 days, the syringe pump should not be stopped in between EDR and tuning.
Id: 5910	Title: Component: Area: Description:	Remind user to autotune after venting 3X0-MS System Control - General Remind the user to retune the instrument after venting and cleaning parts. This is not obvious to customers. Display a pop-up window when the "pump down" button is clicked

		recommending that an Auto Tune should be performed after venting and/or cleaning/replacing parts.
Id: 5919	Title: Component: Area: Description:	CI Calibration Issues 3X0-MS System Control - General The addition of EFC flush to CI Calibration has resulted in a 5 min delay before the user is notified of an unstable source temperature. Checking for an unstable source temperature should occur prior to changing the HE/CI valve (11) so that the user is notified promptly. Also, CI calibration should resume when the temperature error drops below 10 degrees if the user has not responded to the calibration halt message box. The box text should say "The Source temperature is not currently stable. Calibration will resume when the temperature is stable. Select 'run' or 'abort' to continue."
Id: 5920	Title: Component: Area: Description:	CID not ready limits 3X0-MS ModWin - General Currently the instrument status becomes "not ready" if the CID pressure error is greater than 0.15mTorr or the pressure is less than 0.3mTorr. This means that it will not stay ready if the set point is 0.2mTorr. Also, the instrument remains ready if the CID is turned off, even though it takes about 30sec for the cell pressure to drop below effective levels. Lower the pressure limit for ready to 0.1mTorr
Id: 5928	Title: Component: Area: Description:	Divert Delay from old 1200 methods does not download cleanly to 320 3X0-MS System Control - General If an old method (written in 6.6, 6.5, 6.42, or 6.3 for the 1200) that uses a Divert Delay is used to perform an acquisition on a 320 instrument, the valve remains in manual mode, but during the run, the valve will switch at the time the divert delay ends if the valve starts out in the Inject/MS position at the beginning of the acquisition. If the Valve starts out in Load/Divert mode, all is fine. If you go in and change the delay time and save the method, then all is fine.
Id: 5934	Title: Component: Area: Description:	Capillary input in method sets the voltage to twice the value 3X0-MS System Control - General Enter 100V for capillary voltage in the scan dialog (or method). The readback shows 200V. Tried other value and they all appear to be twice the voltage entered. If no voltage is entered in the scan dialog (method) then the readback is OK, it corresponds to the value shown in the scan table.
Id: 5943	Title: Component: Area: Description:	Syringe Pump will turn on if previously used in method of same name 3X0-MS System Control - Automation Created a brand new method using 6.8. In this method, the syringe pump was used and the valve was set to injector or divertor. When using the method everything worked correctly. Edit the method, turn the syringe pump off, save it as the same name, and reactivate it. During automation, the syringe pump will come on, even though it was not set in the method anymore.
Id: 5946	Title: Component:	Aborting Nebulizing Calib incorrectly reported as Drying Gas abort 3X0-MS

	Area: Description:	System Control - General On systems configured for LC/MS and "Calibrate All" is selected, if "Stop" is clicked during Nebulizing Gas calibration (after CID and Drying Gas calibration have completed) the log incorrectly says that Drying Gas calibration was aborted by the user. On GC/MS systems, a similar situation happens with the result being that the log incorrectly says that the CI flow controller calibration was aborted by the user.
Id: 5973	Title: Component: Area: Description:	Delay Time/Run Time Disconnect Error 3X0-MS System Control - Automation If the Run Time is .1 min larger than the delay time, then an instrument disconnect occurs.
Id: 5997	Title: Component: Area: Description:	Diagnostics Failure on 310 MS 3X0-MS System Control - General 310-MS systems (which are not supposed to have a 6-port valve or syringe pump) fail in diagnostics because they do not have a 6-port valve.
Id: 6040	Title: Component: Area: Description:	Scan table mixed up in the Method Builder during sorting 3X0-MS Quan MS - General Open an existing method in the Method Builder and change a mass value in a scanlet, then directly hit the System Close button. If the mass changes triggered the sorting program and re-arranged the scanlets, then the resulting scan table is mixed up.
Id: 6041	Title: Component: Area: Description:	Q1 and Q3 resolution settings are swapped in file log 3X0-MS System Control - General In a 320 data file, the resolution settings (peak width fields) for Q1 and Q3 are swapped in the log file. "Q3 peak width" shows the setting for Q1 and viceversa.
Id: 6078	Title: Component: Area: Description:	Trying to Calibrate Pressures or run Diagnostics causes Sys Ctrl Crash 3X0-MS System Control - General When calibrating all pressures or individually, nothing appears to happen then after about 30 seconds, System Control crashes.

4000 MS

Id: 6024	Title: Component: Area: Description:	EFC error handling 4000 ModWin - General The user sees EFC errors with the 4000 that shouldn't occur. For 6.8, a check is made for the pump up-to-speed, but now also check if the EFC module is present and if the mode is not demo.
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500-MS

Id: 5955	Title: Component: Area: Description:	500 data files produced in manual control can have hard to display spectra 500-MS ModWin - Manual Control If a data file is created in manual control in the following way, examining the spectrum in MSDR does not work as expected. Collect the file with a method, which has two segments. The first segment is
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		single-channel full scan. The second segment is full scan, alternating positive and negative. As the acquisition proceeds, change from segment 1 to segment 2. When the resulting data file is read into MS DR, spectra from segment 2 cannot be displayed using the TIC or one of the channel descriptors.
Id: 5963	Title: Component: Area: Description:	Module attributes in 6.6 data files are not displayed in the 6.8 MS DR 500-MS MSDataRev - Reports, View&Print When viewing files created in V6.6.0 in V6.8.0 the module attributes are not displayed.
Id: 5968	Title: Component: Area: Description:	Clicking Spectrum Select during acq. gives white chro display in Manual Ctrl 500-MS ModWin - Acquisition During Acquisition, if you click on the Spectrum Select Icon, and then don't unclick it before reverting back to Manual Control, then the chro display in Manual Control is a blank white screen.
Id: 6022	Title: Component: Area: Description:	500 Supplemental Wave Crash 500-MS ModWin - Auto Tune A crash was seen during the Supp Wave auto tune. The crash may occur less than 1 out of 100 runs. The System Control Crash dialog box will appear on the screen while tuning and then the lost communication error message will be displayed. This problem depends on peak shape and is more likely with poor peak shapes. This is apparently the cause of the crash observed above.
Id: 6023	Title: Component: Area: Description:	Supp Wave poor reproducibility 500-MS ModWin - Auto Tune A random appearance of poor peak shapes in 'Standard' scan speed on the 500-MS has been observed. A revised auto tune has been prepared that looks at a larger portion of the isotopic peak shapes and reduces the likelihood of the poor peak shapes.
Id: 6069	Title: Component: Area: Description:	SuppWave tune offset-slope calculation error 500-MS ModWin - Auto Tune Supp Wave auto tune does the tuning for Enhanced followed by Standard. For each speed, the offset and slope are adjusted by optimizing the mass 578 peak shape. It was determined that in many cases, the Standard scan speed was using the optimum offset found in the Enhanced speed scan. In cases where these values were significantly different, this caused a degraded performance for lower mass peaks in the Standard Scan mode.

Core Workstation Platform

Id: 5926	Title: Component: Area: Description:	Module Information Editor Links to .Net DLL Core Workstation Platform Other The Module Information Editor unnecessarily linked to the .Net library MSCOREE.DLL. As a result, if a version of .Net was not installed, the module information could not be edited. The improper link was removed, module information can be edited whether .Net is installed or not.
Id: 6046	Title: Component:	3800 issue with 1093 method GC Module

	Area: Method Editor Description: If a 3800 GC was equipped with a 1093 injector, the mechanism updating a newly created method to make it compatible with the on-line instrument configuration failed to properly initialize the 1093 parameters. As a result, the method failed to download, reporting 'Error 4'. A simple workaround is to edit the Injector section of the 1093 method. Re-selecting the 1093 injector type from the drop-down listbox initializes the 1093 with valid parameters. The driver was modified to properly initialize the 1093 parameters when making the method compatible with the installed hardware.problem.
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MS Data Handling/Reports

Id: 5930	Title: S/N values sometimes wrong for peaks crossing segment boundaries Component: MS Workstation Platform Area: MSDataRev - General Description: Very large S/N values could be reported for peaks that crossed segment boundaries in the following situations: when Peak-to-Peak Noise is specified, or when either Peak-to-Peak or RMS noise is specified and the peak Retention Time is in a different data file segment than the Method Retention Time. In these cases, the Noise was incorrectly calculated to be 1.
Id: 5932	Title: Peaks crossing segment boundaries not found in Quick Integration Component: MS Workstation Platform Area: MSDataRev - General Description: Peaks crossing segment boundaries were not integrated when doing Quick Integration in the Plots View.
Id: 5956	Title: Zooming chromatogram segment with > 40,000 pts can crash MS DR Component: MS Workstation Platform Area: MSDataRev - MultiChro Display Description: If a chromatogram segment contained more than 40,000 points and was displayed in Single-Segment mode, MS DR crashed if the chromatogram was zoomed until the time range was so small that individual points should be displayed.
Id: 5986	Title: Scan Func chromatograms only scale to raw data, not smoothed Component: MS Workstation Platform Area: MSDataRev - MultiChro Display Description: Scan function chromatograms always scaled based on the raw data intensities, even if only the Smoothed plot was displayed. TIC chromatograms do scale correctly.
Id: 6071	Title: Missing compounds don't always show spec match result Component: MS Workstation Platform Area: MSDataRev - Reports, View&Print Description: If a compound is Missing and identification is by Spectrum Match a match result was not reported if there was no integrated peak in the Search Window that passed the Peak Size Reject Threshold. Now the best match in the smaller of the Integration and Search Windows will be reported.
Id: 6076	Title: Multi-Compound Custom Report Does Not Plot Certain Peaks Component: ToxProPlus/MultiCompound Area: CustMSRpts - General Description: Compounds with a retention time near a segment boundary are not properly plotted by the Multi-Compound Report template.
Id: 6083	Title: Build Spectrum List From Data File Using AMDIS doesn't work Component: MS Workstation Platform Area: MSDataRev - Spectrum Description: The Build Spectrum List From Data File Using AMDIS menu option does not work in 6.8.

Id: 6105	Title: RRT % Tolerance should be relative to Target RRT, not 1.0 Component: MS Workstation Platform Area: DHMeth MS – Calculations Description: The +/- RRT % Tolerance that was applied to the Target RRT was calculated relative to 1.0 rather than to the Target RRT
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