Ortho Clinical Diagnostics

PART OF THE Johnson & Johnson FAMILY OF COMPANIES

April 8, 2016

URGENT PRODUCT CORRECTION NOTIFICATION

Potential Sample Metering Anomaly on VITROS® Systems using Software Version 3.2.2 and Below

Please distribute this information to the appropriate personnel at your facility

Dear Valued Customer,

Product Name	Product Code	Affected Software Version	Unique Device Identifier No.
VITROS® 3600 Immunodiagnostics System	6802783 6802914 (Refurbished)	Software Version 3.2.2 & Below	10758750002979 10758750007103
VITROS® 5600 Integrated System	6802413 6802915 (Refurbished)		10758750002740 10758750007110

Issue Explanation and Impact to Results

Ortho Clinical Diagnostics (Ortho) initiated this Urgent Product Correction due to a VITROS System software timing anomaly that could cause two different sample metering scenarios that may lead to erroneous results.

Scenario 1: The VITROS System could aspirate sample from an unintended sample container causing assay result(s) obtained from that sample to be incorrectly associated with the intended sample.

Scenario 2: A sample could be aspirated from a sample container (Sample A) and be dispensed into an unintended container (Sample B) causing Sample B to be contaminated and diluted by Sample A.

Ortho is able to provide assistance to determine if the anomaly occurred on your system. Refer to the Questions and Answer section for information.

Rate of Occurrence

Based upon assessment of 3 months of e-Connectivity® data, the rate of occurrence is estimated to be:

- Scenario 1:1 per 12,500,000 Results
- Scenario 2:1 per 5,900,000 Results

Resolution

VITROS System Software Version 3.2.3 [Modification (MOD) No. A8] contains the resolution to this anomaly. Beginning on April 7, 2016, automatic download of the software will be available for systems that are e-Connected. Until Software Version 3.2.3 is installed on your system, please follow the enclosed instructions to help decrease the probability of the sample metering anomaly.

Software Version 3.2.3 Prerequisites

Upon availability, ensure that **one** of the following is installed on your system **prior** to installing new Software Version 3.2.3:

- Software Version 3.2 - MOD 89
- Software Version 3.2.1 - MOD A4
- Software Version 3.2.2 - MOD A5

The current software version number appears in the upper right corner of the analyzer screen. If you do not have an appropriate version, please contact our Technical Solutions Center for assistance.

Required Actions

1) Install Software Version 3.2.3 upon availability.
   - Automatic download for e-Connected systems will begin on April 7, 2016.
   - Software kits (DVD format) will be shipped beginning on April 7, 2016.
2) Until Software Version 3.2.3 is installed on your system(s), follow the enclosed instructions to help decrease the probability of this sample metering anomaly.
3) Post these documents by your VITROS® System or place with your user documentation.
4) Discuss any concerns regarding previously reported results with your Laboratory Medical Director to determine the appropriate course of action.
5) Complete and return the **Customer Acknowledgement Form** within 2 business days to acknowledge your reading and understanding of this notice.

We have anticipated some questions you may have in the Questions and Answers section. If you have any questions, contact our Technical Solutions Center at **1800 5646 766**. We apologize for the inconvenience this may cause your laboratory.

Yours sincerely,

[redacted]

Lee Ching Hwee
Associate Manager

Enclosures:

1. Confirmation of Receipt Form
2. Operator Actions to Help Decrease the Probability of Sample Metering Anomaly on VITROS 3600 & 5600 Systems
3. Release Notes for VITROS System Software

Questions and Answers

1. **Which VITROS® Systems are affected by this anomaly?**

   This anomaly only affects VITROS 3600 and 5600 Systems with samples processed in the Routine Lane. It does not affect samples processed using an automation track system (e.g., enGen™ Laboratory Automation System) or samples processing using the Stat Lane.

2. **How does the anomaly occur?**

   Located within the Sample Supply, there are 4 sampling positions in the Routine Lane. The following *specific* sequence of events must occur in order for the software timing anomaly to happen:

   1. A sample from a Universal Sample Tray in tray position 2 or 3 is in process or scheduled to be aspirated **and at the same time,**
   2. A tray in position 1 is rotated to scan the tray and a condition code occurs (TD4-20C, TD4-20* and/or TD4-21*) **and**
   3. System performs an auto recovery (i.e., initialization) for all trays in positions 1 -4.

   *Refer to Question # 6 for a complete list of condition codes associated with this anomaly.

3. **What happens when the anomaly occurs?**

   When the anomaly occurs, there are two possible scenarios described below.

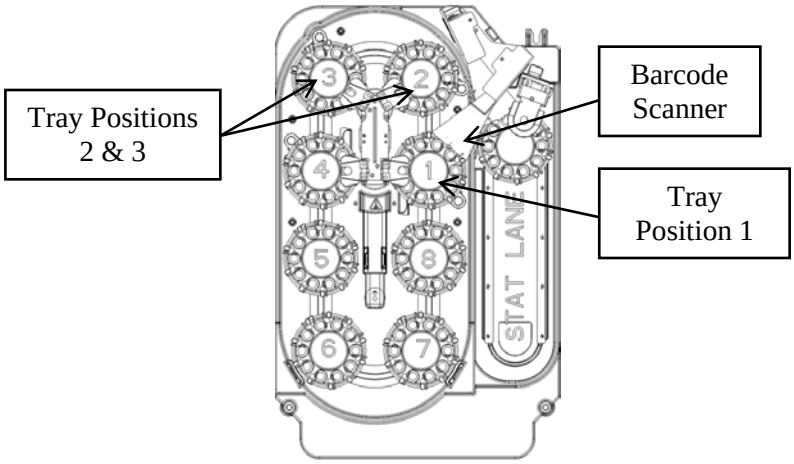
   Scenario 1:
   If sample metering is in progress during the auto recovery process and at the same time, the trays in position 2 and 3 are rotating, the VersaTip may aspirate from an unintended sample container.
   Impact to Results: Results obtained from an unintended sample are associated with the intended patient.
   Rate of Occurrence: Analysis of e-Connectivity data estimates the probability of the anomaly to occur is 1 occurrence per 12,500,000 results.

   Scenario 2:
   If sample aspiration is in progress during the auto recovery process and a metering failure is detected (e.g., bubble detected), the proboscis is raised out of that sample container. The tests to be metered are marked with "No Results". However, if the metering failure enables the "Save the Sample" operation, the system attempts to dispense the sample back to the original sample container. Because the tray is rotating, a sample that was aspirated from a container (Sample A) could be dispensed into an unintended container (Sample B) causing Sample B to be contaminated and diluted by Sample A.
   Impact to Results: Results obtained from the contaminated sample may be erroneous.
   Rate of Occurrence: Analysis of e-Connectivity data estimates the probability of the anomaly to occur is 1 occurrence per 5,900,000 results.

   NOTE: It is possible for both scenarios to occur sequentially.

4. **How can I determine tray positions in the Sample Supply?**

   The affected positions located in the Routine Lane of the Sample Supply as shown below:



5. What is "Save the Sample"?

Under specific conditions, if the system's initial attempt to aspirate sample from a sample container is unsuccessful, the system will dispense the sample fluid back into the original sample container from the VersaTip. "Save the Sample" is not a configurable option, but rather it is programmed into the software.

6. What condition codes are associated with this anomaly?

The following condition codes are associated with mechanical issues when reading tray and sample barcodes. One of these conditions codes will be present prior to the anomaly occurring:

TD4-20* (TRAY Barcodes)			TD4-21* (SAMPLE Barcodes)		
TD4-200	TD4-204	TD4-20B	TD4-210	TD4-214	TD4-21D
TD4-201	TD4-205	TD4-20C	TD4-211	TD4-215	TD4-21E
TD4-202	TD4-206	TD4-20D	TD4-212	TD4-216	
TD4-203	TD4-209	TD4-20E	TD4-213	TD4-219	

NOTE: To enhance or enable the audio alert if the condition code(s) occurs, consider increasing the volume for Attention Codes in *Options and Configurations*.

7. Is it possible to determine when the anomaly occurs on my system?

Prior to installing Software Version 3.2.3, you may consider monitoring the sequence of events to help identify the anomaly:

For Scenario 1: A TD4 condition code is posted **AND** within 25 seconds one of the following occurs:

- System Scheduler Timeout (condition code SB5-010) is posted with the specific text "*SaHaTrays12Init*" **OR**
- Tray Rotation Error (condition code: TD0-2**, TD0-3**, TD0-4** is posted).

For Scenario 2: A TD4 condition code is posted, **AND** within 25 seconds one of the following occurs:

- Sample Exceeds Maximum Onboard Time (condition code SBA-007) Tray ID Cup -1 : NOTE: *the Tray and ID are blank, and the Cup is -1* **OR**
- uS Metering Aspirate Error (TE5-45* - *code ends in anything other than A, D, E or H) **OR**

- uIA Metering Aspirate Error (TM5-45*- *code ends in anything other than A, D, E or H)

8. Is it possible for Ortho to determine if the anomaly occurred on my VITROS System?

Yes, Ortho can determine if the anomaly occurred on your system(s). Depending upon whether your system is e-connected or not, the table below will help you to determine if further actions are necessary.

Assistance to Determine if the Anomaly Occurred on your VITROS System	
VITROS Systems that are <u>e-Connected</u>	*<u>Analysis of previously reported results:</u>* • We are in the process of reviewing the last 3 months of your data. • Upon request, we will evaluate your available historical data (maximum of up to 2 years). To request a historical data review, contact Ortho's Technical Solutions Center for assistance.
	<u>Analysis of ongoing results:</u> • Ortho is currently monitoring your system(s) for the occurrence of the anomaly. We will continue to do so until the next version of software is installed on your system.
	***<u>If</u>* your system was potentially affected by the anomaly, Ortho will contact you and provide a summary of your data.**
VITROS Systems that are <u>NOT e-Connected</u>	*<u>Analysis of previously reported results:</u>* *If your VITROS® System is <u>not</u> e-Connected*, no data analysis has been conducted by Ortho at this time. • Upon request, Ortho can perform a review of your datalogger files currently stored on your system as well as any that have been archived at your facility. ✓ To request an analysis of your datalogger files, please indicate your preference for assistance on your Confirmation of Receipt form or to expedite your request, contact your local Technical Solutions Center. ✓ Upon our receipt of your datalogger files, Ortho will contact you if your system was affected. **IMPORTANT TO NOTE:** *Ortho does not recommend the use of confidential, patient-identifying information such as patient name or government identifier as part of Sample ID.*
	<u>Self Monitoring of ongoing results:</u> Follow the instructions in Question # 7. If you observe an occurrence, contact your Technical Solutions Center for assistance.

9. Are all assays affected?

Results from any assay (i.e., MicroTip, MicroSlide and MicroWell) processed for the affected sample may be affected if the anomaly occurs. Specimens aspirated from either sample cups or tubes in the routine lane may be affected.

10. Until Software Version 3.2.3 is installed, what actions are required that will help decrease the probability of the anomaly?

Following the enclosed instructions (*Operator Actions Instructions to Help Decrease the Probability of Sample Metering Anomaly on VITROS 3600 & 5600 Systems*) can help to decrease the probability of occurrence until Software Version 3.2.3 is installed on your system.