

VERMONT FORENSIC LABORATORY

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DATAMASTER TECHNICAL SUPPORT INQUIRY

Agency/Site: Woodstock PD DataMaster Serial #: 100152

Date: 02/07/2013 Requestor: William Hanson

Instrument Supervisor: William Hanson Phone #: (802) 457-1420

Taken By: R. Driscoll

Problem: Failure during Routine Performance Checks

Laboratory Response: DMT supervisor claims that the RPC fails after the RFI test, but is not sure of the cause. Will investigate on site.

Work Performed: DataMaster supervisor had three failed RPC attempts. Inspected simulator for leaks and observed technician screen to check DMT specifications. All settings were within specifications; printed a "status record history". The report shows that the RPC failed twice for "sample acceptance test failed" and once for "accuracy and precision check failed". Ran RPC protocol without issue. Instrument is back in service.

On Site In-house

Attachments: 5 pages

Performed By: R. Driscoll *RED*

Date: 2/7/2013

Final Review: *TLGA*

Date: 2/11/2013

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100152
Location: Woodstock PD
Calibration Date: 03/07/2012
Certification Date: 03/07/2012
Installation Date: 03/08/2012
RPC Date: 02/07/2013
Supervisor Name: ROBERT DRISCOLL

Diagnostic Results

VERSIONS

DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 48.1°C
Digital Sim = 34.0°C

SETTINGS

Lamp Voltage = 1.71 V
Cooler Voltage = 1.73 V
Bias Voltage = 81 V
Chopper Freq = 554 Hz

PUMP INFO

Flow Rate = 5.578 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX (V)	0.1331	0.1370
MIN (V)	0.1301	0.1341

FILTER INFO

Filter	Value	Zero
Filter 1	0.136	Zero = true
Filter 2	0.467	Zero = true
Filter 3	1.089	Zero = true

CALIBRATION CHECK

Xq = 0.080 1.10%

Routine Performance Check Passed

Accuracy and Precision Check

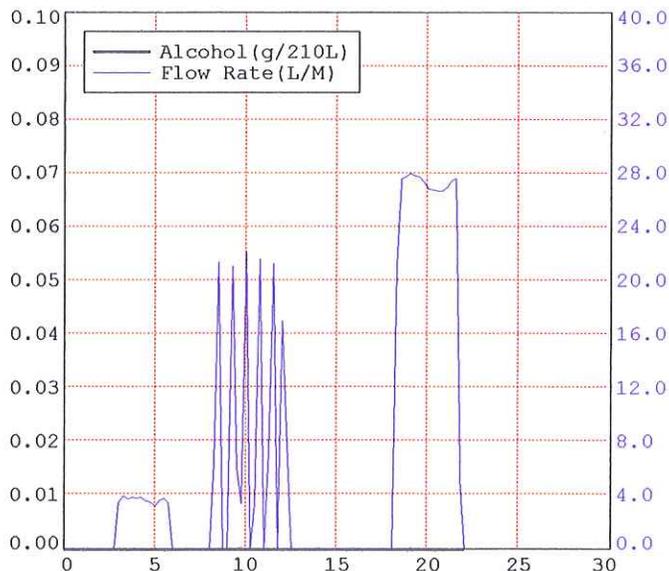
Concentration = 0.097 g/210L
Lot # = 12-89-100
Range = 0.092 - 0.102
Average = 0.094 g/210L
Std Dev = 0.0000

RF Detection Test

Passed

Sample Acceptance Test

Passed



Performed by RPD

Date 02/07/2013

Reviewed by [Signature]

Date 2/11/2013

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100152
Location: Woodstock PD
Calibration Date: 03/07/2012
Certification Date: 03/07/2012
Installation Date: 03/08/2012
RPC Date: 02/04/2013
Supervisor Name: WILLIAM E HANSON

Diagnostic Results

VERSIONS

DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.0°C
Breath Tube = 48.1°C
Digital Sim = 34.0°C

SETTINGS

Lamp Voltage = 1.71 V
Cooler Voltage = 1.72 V
Bias Voltage = 81 V
Chopper Freq = 553 Hz

PUMP INFO

Flow Rate = 5.577 L/M

DETECTOR INFO

	ON	OFF
MAX(V)	0.1358	0.1411
MIN(V)	0.1331	0.1382

FILTER INFO

Filter 1	0.139	Zero = true
Filter 2	0.470	Zero = true
Filter 3	1.097	Zero = true

CALIBRATION CHECK

Xq = 0.079 0.22%

Accuracy and Precision Check

Concentration	= 0.097 g/210L
Lot #	= 12-89-100
Range	= 0.092 - 0.102
Average	= 0.095 g/210L
Std Dev	= 0.0000

RF Detection Test

Passed

Sample Acceptance Test

Routine Performance Check Failed

Performed by

William E Hanson

Date

02/04/2013

Reviewed by

Date

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100152
Location: Woodstock PD
Calibration Date: 03/07/2012
Certification Date: 03/07/2012
Installation Date: 03/08/2012
RPC Date: 02/04/2013
Supervisor Name: WILLIAM E HANSON

Diagnostic Results

VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 48.1°C
Digital Sim = 33.9°C

SETTINGS

Lamp Voltage = 1.71 V
Cooler Voltage = 1.72 V
Bias Voltage = 81 V
Chopper Freq = 553 Hz

PUMP INFO

Flow Rate = 5.355 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1384	0.1431
MIN(V)	0.1368	0.1411

FILTER INFO

Filter 1	0.141	Zero = true
Filter 2	0.472	Zero = true
Filter 3	1.087	Zero = true

CALIBRATION CHECK

Xq = 0.078 0.88%

Accuracy and Precision Check

Concentration	= 0.097 g/210L
Lot #	= 12-89-100
Range	= 0.092 - 0.102
Average	= 0.095 g/210L
Std Dev	= 0.0000

RF Detection Test

Passed

Sample Acceptance Test

Routine Performance Check Failed

Performed by

William E Hanson

Date

02/04/2013

Reviewed by

Date

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100152
Location: Woodstock PD
Calibration Date: 03/07/2012
Certification Date: 03/07/2012
Installation Date: 03/08/2012
RPC Date: 02/06/2013
Supervisor Name: WILLAIM E HANSON

Diagnostic Results

VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 48.1°C
Digital Sim = 33.9°C

SETTINGS

Lamp Voltage = 1.70 V
Cooler Voltage = 1.72 V
Bias Voltage = 81 V
Chopper Freq = 554 Hz

PUMP INFO

Flow Rate = 5.614 L/M

DETECTOR INFO

	PUMP ON	OFF
MAX (V)	0.1404	0.1433
MIN (V)	0.1384	0.1417

FILTER INFO

Filter 1	0.140	Zero = true
Filter 2	0.472	Zero = true
Filter 3	1.103	Zero = true

CALIBRATION CHECK

Xq = 0.081 2.97%

Accuracy and Precision Check

Concentration	=
Lot #	=
Range	=
Average	=
Std Dev	=

Routine Performance Check Failed

Performed by

Willaim E Hanson

Date

02/06/2013

Reviewed by

Date

