



VERMONT FORENSIC LABORATORY

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DATAMASTER TECHNICAL SUPPORT INQUIRY

Agency/Site: Bennington PD DataMaster Serial #: 100139

Date: 2/7/2014 Requestor: Chris Lauzon

Instrument Supervisor: Chris Lauzon Phone #: (802) 442-1030

Taken By: Robert Driscoll

Problem: Routine Performance Check failures

Laboratory Response: Asked DMT supervisor to recite Diagnostic results from failing RPC reports. Found flow rate to be above 6.5 L/M causing the RPCs to fail. Will troubleshoot in the field.

Work Performed: Installed new adjustable flow rate valve and found broken fitting connecting the pump to the flow sensor block. New part not on hand at time of service, so instrument was returned to the VFL. Installed new hose fitting and set volume to 1.5 L. Instrument ready to return to agency.

On Site In-house

Attachments: 4 pages

Performed By: Robert Driscoll *RD*

Date: 2/11/2014

Final Review: *[Signature]*

Date: 2/18/2014

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100139
Location: Bennington PD
Calibration Date: 09/26/2011
Certification Date: 09/28/2011
Installation Date: 10/11/2011
RPC Date: 02/07/2014
Supervisor Name: CHRIS E LAUZON

Diagnostic Results

VERSIONS

DMT: 1.01
PIC: 2.05
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 48.0°C
Digital Sim = 34.1°C

SETTINGS

Lamp Voltage = 1.80 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 540 Hz

PUMP INFO

Flow Rate = 6.529 L/M

DETECTOR INFO

	ON	OFF
MAX (V)	0.0283	0.0309
MIN (V)	0.0260	0.0289

FILTER INFO

Filter 1	0.031	Zero = true
Filter 2	0.378	Zero = true
Filter 3	0.999	Zero = true

CALIBRATION CHECK

Xq = 0.083 1.06%

Routine Performance Check Failed

Performed by

Ch

Date

02/07/2014

Reviewed by

Date

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100139
Location: Bennington PD
Calibration Date: 09/26/2011
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Supervisor Name: CHRIS E LAUZON

Diagnostic Results

VERSIONS

DMT: 1.01
PIC: 2.05
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.0°C
Breath Tube = 48.1°C
Digital Sim = 34.1°C

SETTINGS

Lamp Voltage = 1.80 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 543 Hz

PUMP INFO

Flow Rate = 6.562 L/M

DETECTOR INFO

	PUMP ON	OFF
MAX (V)	0.0228	0.0258
MIN (V)	0.0209	0.0232

FILTER INFO

Filter 1	0.025	Zero = true
Filter 2	0.372	Zero = true
Filter 3	0.995	Zero = true

CALIBRATION CHECK

Xq = 0.082 0.64%

Routine Performance Check Failed

Performed by _____

Ch

Date _____

02/07/2014

Reviewed by _____

Date _____

DIAGNOSTIC RESULT

DataMaster DMT: 100139
Location: Bennington PD
Calibration Date: 09/26/2011
Certification Date: 09/28/2011
Installation Date: 10/11/2011
Test Date: 02/10/2014
Test Time: 07:58:50



VERSIONS

DMT: 1.01
PIC: 2.05
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.0°C
Breath Tube = 46.0°C
Digital Sim = 0.0°C

SETTINGS

Lamp Voltage = 1.80 V
Cooler Voltage = 1.69 V
Bias Voltage = 80 V
Chopper Freq = 525 Hz

PUMP INFO

Flow Rate = 6.087 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX (V)	-0.0602	-0.0530
MIN (V)	-0.0616	-0.0545

FILTER INFO

Filter 1	-0.054	Zero = true
Filter 2	0.303	Zero = true
Filter 3	0.844	Zero = true

CALIBRATION CHECK

Xq = 0.082 0.21%