



**VERMONT FORENSIC LABORATORY**

PO BOX 47  
WATERBURY, VERMONT 05676-0047  
TEL: 802-244-8788  
FAX: 802-241-5557  
<http://vfl.vermont.gov>

**DATAMASTER TECHNICAL SUPPORT INQUIRY**

Agency/Site: Shelburne PD \_\_\_\_\_ DataMaster Serial #: 100133 \_\_\_\_\_

Date: 10/09/2012 \_\_\_\_\_ Requestor: Peter King \_\_\_\_\_

Instrument Supervisor: Peter King \_\_\_\_\_ Phone #: \_\_\_\_\_

Taken By: Robert Driscoll \_\_\_\_\_

Problem: Routine Performance Check Failed \_\_\_\_\_

Laboratory Response: Will investigate on site. \_\_\_\_\_

Work Performed: DataMaster Supervisor, Peter King, attempted the RPC three times. The first RPC failed after the diagnostic check. The second RPC passed all checks, but the sample acceptance should not have been passed by Officer King as there was only a shallow breath performed. According to Officer King, the instrument bypassed the "Did instrument pass all sample acceptance checks? Yes/No" selection box and completed the RPC as passing. His third attempt again failed after the diagnostic check. Upon my arrival, I inspected the simulator to make sure it was assembled properly after the solution change. Everything looked fine so I attempted to run the RPC protocol. After the diagnostic check, the instrument made a "beep" sound as if detecting RF and failed the RPC. I asked the officers if anything had changed in respect to their radio system and was told the agency had received a new radio console. I adjusted the RFI sensitivity and performed another RPC protocol without issue.

On Site     In-house

Attachments: 5 pages

Performed By: Robert Driscoll \_\_\_\_\_

Date: 10/09/2012 \_\_\_\_\_

Final Review: *[Signature]* \_\_\_\_\_

Date: 10/11/2012 \_\_\_\_\_

# ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100133  
Location: Shelburne PD  
Calibration Date: 11/18/2011  
Certification Date: 11/18/2011  
Installation Date: 12/22/2011  
RPC Date: 10/07/2012  
Supervisor Name: PETER G KING

## 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 = 1.64 V  
Cooler Voltage = 1.59 V  
Bias Voltage = 81 V  
Chopper Freq = 542 Hz

### PUMP INFO

Flow Rate = 6.593 L/M

### DETECTOR INFO

	PUMP	ON	OFF
MAX (V)	0.1606		0.1620
MIN (V)	0.1591		0.1610

### FILTER INFO

Filter 1	0.161	Zero = true
Filter 2	0.528	Zero = true
Filter 3	1.138	Zero = true

### CALIBRATION CHECK

Xq = 0.087 0.10%

**Routine Performance Check Failed**

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Performed by *Peter King* Date 10/07/2012

Reviewed by \_\_\_\_\_ Date \_\_\_\_\_

# ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100133  
Location: Shelburne PD  
Calibration Date: 11/18/2011  
Certification Date: 11/18/2011  
Installation Date: 12/22/2011  
RPC Date: 10/07/2012  
Supervisor Name: PETER G KING

## Diagnostic Results

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 48.8°C  
Breath Tube = 47.8°C  
Digital Sim = 34.0°C

### SETTINGS

Lamp Voltage = 1.64 V  
Cooler Voltage = 1.59 V  
Bias Voltage = 81 V  
Chopper Freq = 542 Hz

### PUMP INFO

Flow Rate = 6.445 L/M

### DETECTOR INFO

PUMP	ON	OFF
MAX (V)	0.1598	0.1622
MIN (V)	0.1585	0.1608

### FILTER INFO

Filter 1	0.161	Zero = true
Filter 2	0.529	Zero = true
Filter 3	1.137	Zero = true

### CALIBRATION CHECK

Xq = 0.087 0.70%

Routine Performance Check Passed

## Accuracy and Precision Check

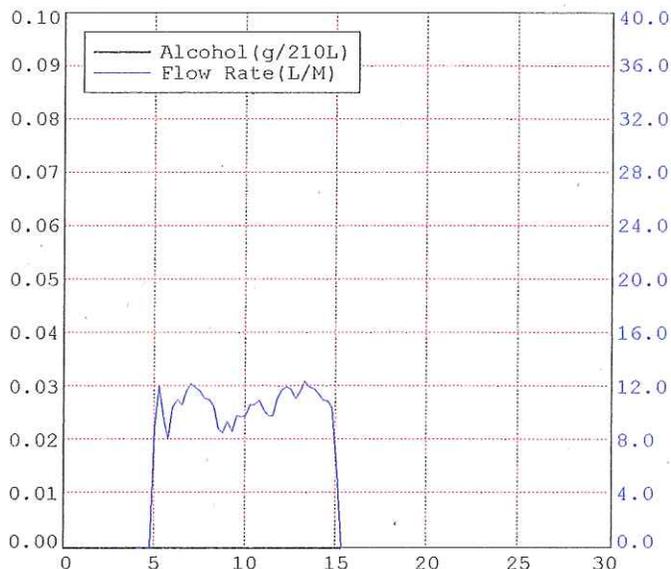
Concentration = 0.099 g/210L  
Lot # = 12-80-100  
Range = 0.094 - 0.104  
Average = 0.100 g/210L  
Std Dev = 0.0000

## RF Detection Test

Passed

## Sample Acceptance Test

Passed



*Incomplete sample acceptance test RCD 10/9/12*

Performed by

*Peter King*

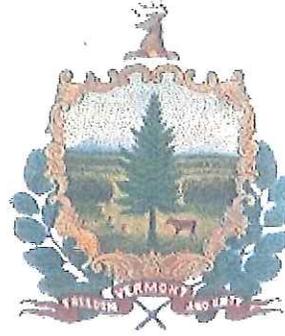
Date

10/07/2012

Reviewed by

Date

# ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100133  
Location: Shelburne PD  
Calibration Date: 11/18/2011  
Certification Date: 11/18/2011  
Installation Date: 12/22/2011  
RPC Date: 10/07/2012  
Supervisor Name: PETER G KING

## Diagnostic Results

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 49.1°C  
Breath Tube = 46.5°C  
Digital Sim = 34.0°C

### SETTINGS

Lamp Voltage = 1.64 V  
Cooler Voltage = 1.59 V  
Bias Voltage = 81 V  
Chopper Freq = 541 Hz

### PUMP INFO

Flow Rate = 6.574 L/M

### DETECTOR INFO

PUMP	ON	OFF
MAX (V)	0.1663	0.1683
MIN (V)	0.1646	0.1671

### FILTER INFO

Filter 1	0.167	Zero = true
Filter 2	0.535	Zero = true
Filter 3	1.148	Zero = true

### CALIBRATION CHECK

Xq = 0.088 1.00%

**Routine Performance Check Failed**

Performed by \_\_\_\_\_ Date 10/07/2012

Reviewed by \_\_\_\_\_ Date \_\_\_\_\_

# ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100133  
Location: Shelburne PD  
Calibration Date: 11/18/2011  
Certification Date: 11/18/2011  
Installation Date: 12/22/2011  
RPC Date: 10/09/2012  
Supervisor Name: ROBERT DRISCOLL

## Diagnostic Results

### VERSIONS

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

### TEMPERATURES

Sample Chamber = 49.1°C  
Breath Tube = 47.6°C  
Digital Sim = 34.0°C

### SETTINGS

Lamp Voltage = 1.64 V  
Cooler Voltage = 1.59 V  
Bias Voltage = 81 V  
Chopper Freq = 540 Hz

### PUMP INFO

Flow Rate = 6.596 L/M

### DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1478	0.1500
MIN(V)	0.1463	0.1486

### FILTER INFO

Filter 1	0.150	Zero = true
Filter 2	0.519	Zero = true
Filter 3	1.121	Zero = true

### CALIBRATION CHECK

Xq = 0.087 0.30%

## Routine Performance Check Failed

*RF detected, reset sensitivity RCD 10/9/12*

Performed by

*RD*

Date

10/09/2012

Reviewed by

Date

# ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100133  
Location: Shelburne PD  
Calibration Date: 11/18/2011  
Certification Date: 11/18/2011  
Installation Date: 12/22/2011  
RPC Date: 10/09/2012  
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 = 46.9°C  
Digital Sim = 34.0°C

### SETTINGS

Lamp Voltage = 1.64 V  
Cooler Voltage = 1.59 V  
Bias Voltage = 81 V  
Chopper Freq = 541 Hz

### PUMP INFO

Flow Rate = 6.497 L/M

### DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1443	0.1476
MIN(V)	0.1429	0.1459

### FILTER INFO

Filter	Value	Zero
Filter 1	0.146	Zero = true
Filter 2	0.516	Zero = true
Filter 3	1.116	Zero = true

### CALIBRATION CHECK

Xq = 0.086 0.60%

Routine Performance Check Passed

## Accuracy and Precision Check

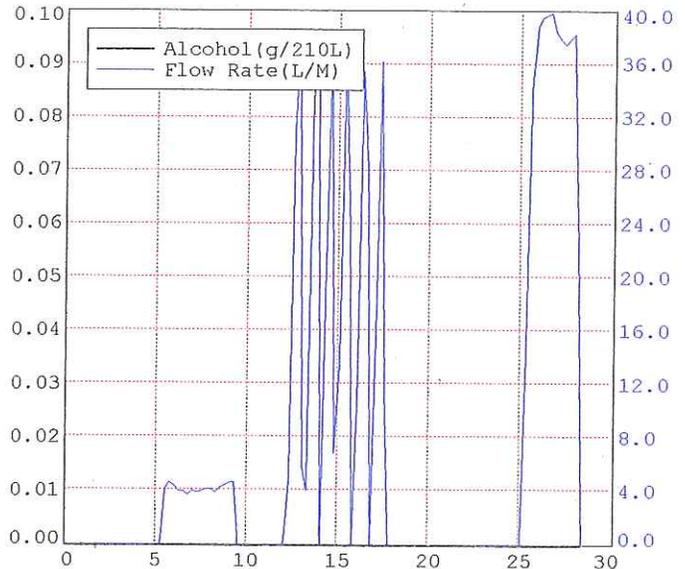
Concentration	= 0.099 g/210L
Lot #	= 12-80-100
Range	= 0.094 - 0.104
Average	= 0.100 g/210L
Std Dev	= 0.0000

## RF Detection Test

Passed

## Sample Acceptance Test

Passed



Performed by RDH

Date 10/09/2012

Reviewed by \_\_\_\_\_

Date \_\_\_\_\_