



VERMONT FORENSIC LABORATORY

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DATAMASTER TECHNICAL SUPPORT INQUIRY

Agency/Site: Burlington PD DataMaster Serial #: 104009

Date: 2/25/2013 Requestor: Dwayne Mellis

Instrument Supervisor: Dwayne Mellis Phone #: (802) 658-2704

Taken By: Amanda Bolduc

Problem: DataMaster DMT failed to detect RFI while running the February RPC _____

Laboratory Response: Will investigate RPC failures on site _____

Work Performed: R. Driscoll went to agency to troubleshoot the February RPC failures. Looking over the two failed RPC's, it was noted that both failed the RF detection test. Printed a status history report which showed errors for "RF not detected" during the two RPC attempts on 2/25/2013. R. Driscoll ran the RPC protocol without issue. Possible that the DMT supervisor did not key their radio next to the breath tube as indicated in the DataMaster supervisor manual. VFL staff contacted DMT supervisor to make aware of this for future RPC's.

On Site In-house

Attachments: 7 pages

Performed By: R. Driscoll RD

Date: 3/4/2013

Final Review: [Signature]

Date: 3/6/2013

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 104009
Location: Burlington PD
Calibration Date: 12/14/2011
Certification Date: 12/14/2011
Installation Date: 12/21/2011
RPC Date: 03/04/2013
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 = 46.0°C
Digital Sim = 34.1°C

SETTINGS

Lamp Voltage = 1.67 V
Cooler Voltage = 1.62 V
Bias Voltage = 81 V
Chopper Freq = 544 Hz

PUMP INFO

Flow Rate = 5.592 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX (V)	-0.2010	-0.1990
MIN (V)	-0.2022	-0.2002

FILTER INFO

Filter	Value	Zero
Filter 1	-0.200	true
Filter 2	0.397	true
Filter 3	0.222	true

CALIBRATION CHECK

Xq = 0.084 0.00%

Routine Performance Check Passed

Accuracy and Precision Check

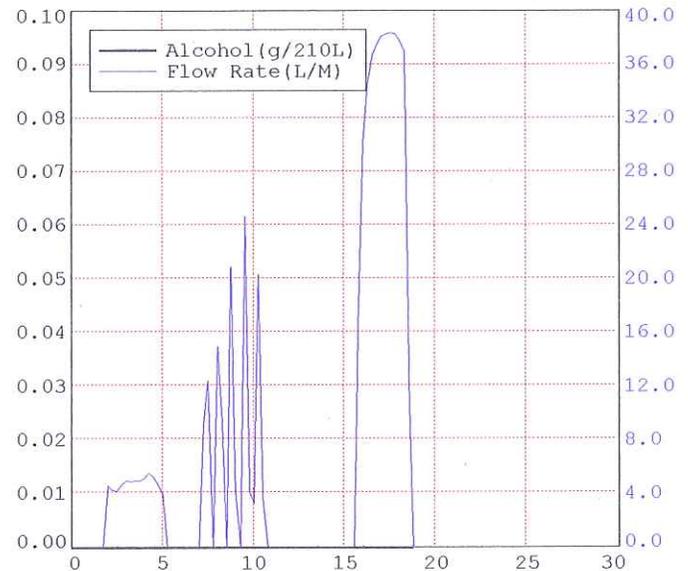
Concentration	= 0.098 g/210L
Lot #	= 12-88-100
Range	= 0.093 - 0.103
Average	= 0.099 g/210L
Std Dev	= 0.0000

RF Detection Test

Passed

Sample Acceptance Test

Passed



Performed by ALB RCD

Date 03/04/2013

Reviewed by [Signature]

Date 3/6/2013

Bolduc, Amanda

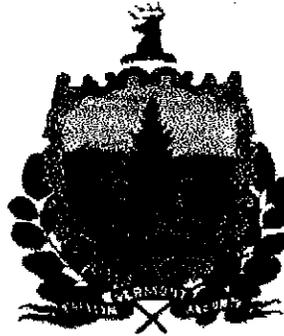
From: Mellis, Dwayne A <dmellis@bpdvt.org>
Sent: Monday, February 25, 2013 2:05 AM
To: Bolduc, Amanda
Cc: Conti, Trisha
Subject: Burlington PD DMT 104009.
Attachments: RPCDMT2-25-13.pdf

Dear Amanda and Trisha,

I attempted to complete our Routine Performance Check earlier this morning and I had a issue with the RF Detection Test. The voltage for the test was above the .003V ranging in .011 to .012. Due to the reading I placed the machine out of service. I did not email Rob in regards to the matter because he stated in a email that he would be out of town. Please let me know if there is anything else I can do. Please see attached report. Thank you in advance.

Dwayne

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 104009
Location: Burlington PD
Calibration Date: 12/14/2011
Certification Date: 12/14/2011
Installation Date: 12/21/2011
RPC Date: 02/25/2013
Supervisor Name: DWAYNE A MELLIS

Diagnostic Results

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

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 46.5°C
Digital Sim = 34.1°C

SETTINGS

Lamp Voltage = 1.67 V
Cooler Voltage = 1.61 V
Bias Voltage = 81 V
Chopper Freq = 543 Hz

PUMP INFO

Flow Rate = 5.647 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.1988	-0.1967
MIN(V)	-0.2002	-0.1984

FILTER INFO

Filter 1	-0.198	Zero = true
Filter 2	0.400	Zero = true
Filter 3	0.222	Zero = true

CALIBRATION CHECK

Xq = 0.084 0.31%

Accuracy and Precision Check

Concentration	= 0.098 g/210L
Lot #	= 12-88-100
Range	= 0.093 - 0.103
Average	= 0.100 g/210L
Std Dev	= 0.0000

RF Detection Test

Failed

Routine Performance Check Failed

Performed by

Handwritten signature of Dwayne A Mellis.

Date

02/25/2013

Reviewed by

Date

Bolduc, Amanda

From: Mellis, Dwayne A <dmellis@bpdvt.org>
Sent: Monday, February 25, 2013 6:39 PM
To: Bolduc, Amanda
Subject: Burlington PD DMT 104009

Hi Amanda,

I recieved a email from Cpl. Fabiani that you called. I attempted the RPC check once more and I had the same issue. The voltage was within the .003 mark but the RF was not detected as the first attempt. I scanned the second report and it is attached. I tried the keying the hand held radio three times to see if it would detect but had nothing after 5 minutes of waiting. I took the machine out of service. I will be off from work for the next three days with several court appearances in play.

Dwayne

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 104009
Location: Burlington PD
Calibration Date: 12/14/2011
Certification Date: 12/14/2011
Installation Date: 12/21/2011
RPC Date: 02/25/2013
Supervisor Name: DWAYNE A MELLIS

Diagnostic Results

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

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 45.8°C
Digital Sim = 34.1°C

SETTINGS

Lamp Voltage = 1.67 V
Cooler Voltage = 1.62 V
Bias Voltage = 81 V
Chopper Freq = 543 Hz

PUMP INFO

Flow Rate = 5.692 L/M

DETECTOR INFO

	PUMP ON	OFF
MAX (V)	-0.2020	-0.1998
MIN (V)	-0.2037	-0.2014

FILTER INFO

Filter 1	-0.201	Zero = true
Filter 2	0.398	Zero = true
Filter 3	0.219	Zero = true

CALIBRATION CHECK

Xq = 0.084 0.52%

Accuracy and Precision Check

Concentration	= 0.098 g/210L
Lot #	= 12-88-100
Range	= 0.093 - 0.103
Average	= 0.098 g/210L
Std Dev	= 0.0000

RF Detection Test

Failed

Routine Performance Check Failed

Performed by

D. Mellis

Date

02/25/2013

Reviewed by

Date

Driscoll, Rob

From: Driscoll, Rob
Sent: Wednesday, March 06, 2013 8:02 AM
To: 'Fabiani, Paul B.'
Subject: RE: Checking in

Paul,

No worries on not being there, I was able to rerun the RPC protocol and get your DataMaster back in service. Looking at the "status record history", the DMT showed that it did not detect RF during the RF detection check. What may have happened is when keying the portable radio the antenna may have not been pointed near the breath tube. Feel free to contact me with any other questions or concerns.

Regards,
Rob

From: Fabiani, Paul B. [<mailto:pfabiani@bpdvt.org>]
Sent: Wednesday, March 06, 2013 7:57 AM
To: Driscoll, Rob
Subject: Checking in

Hi Rob,

Sorry about not calling you the other morning, I sent Amanda an email Saturday telling her I didn't realize it was our days off change weekend and was not going to be in on Monday morning.

How did things go? Obviously you tackled it and figured it out. What did you discover was wrong or maybe there was nothing wrong.

Thanks for your time driving up here from Waterbury, we appreciate it.

Paul