



VERMONT FORENSIC LABORATORY

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DATAMASTER TECHNICAL SUPPORT INQUIRY

Agency/Site: St. Albans PD DataMaster Serial #: 104809

Date: 08/06/2012 Requestor: Holly Moore

Instrument Supervisor: Moore Phone #: _____

Taken By: R. Driscoll

Problem: Sim. Temp. out of range during Solution Change protocol

Laboratory Response: Will investigate in field on 8/6/2012

Work Performed: Simulator temp on DMT reading from 33.5-33.7 degrees C. Checked temp of sim solution with traceable NIST thermometer (s/n 111814522); solution temp read 33.9 degrees C. Adjusted temp. sense board in simulator so DMT temp reading would match the temp verified by the NIST traceable thermometer. Ran a diagnostic to check machine peripherals and all check out within specs. Performed Solution Change protocol and all within specs. Unit is back in service. RCD 8/6/2012

On Site In-house

Attachments: 4 pages

Performed By: R. Driscoll RCD

Date: 08/06/12

Final Review: ELGA

Date: 8/9/2012

Driscoll, Rob

From: Conti, Trisha
Sent: Monday, August 06, 2012 8:13 AM
To: Driscoll, Rob
Subject: FW: Bottles

Trisha L. Conti, Ph.D.

Senior Forensic Chemist
Alcohol Program Supervisor
Vermont Forensic Laboratory
(802) 241-5436 (desk)
(802) 585-6629 (cell)

trisha.conti@state.vt.us ***please note new email address***

From: Bolduc, Amanda
Sent: Monday, August 06, 2012 8:03 AM
To: Conti, Trisha
Subject: Fwd: Bottles

Sent from my Verizon Wireless 4G LTE smartphone

----- Original Message -----

Subject: RE: Bottles
From: "Moore, Holly" <Holly.Moore@state.vt.us>
Date: Sat, 04-Aug-2012 08:31
To: "Bolduc, Amanda" <Amanda.Bolduc@state.vt.us>
CC:

Good Morning Amanda,

I regret to tell you I again took the DataMaster out of service. I know you replaced the Simulator on 07-13-12. I replaced the Simulator Solution on 07-25-12; afterwards putting the DataMaster through its Accuracy and Precision Tests, which it failed and aborted. On 07-31-12, I called you (after hours) on 07-31-12, and was picked up by HQ. The receptionist said she would get a message to you, but I didn't hear from you, so assume you did not get it.

There is a box on the screen now that reads "Simulator Temperature too low." The temperature at the bottom of the screen reads 33.7-33.7. It must have a minimum temp of 33.5.

I am pretty discouraged with this DataMaster. The troops all expect me to "fix it" and can't understand why I haven't yet. There is only so much "tinkering" I can do. I did the recommendations listed in the book for troubleshooting "Simualtor Temperature too Low." I think there is a problem with the calibration. Please contact me as soon as possible by e-mail or my cell number: (802)323-6000.

Thank you Amanda. Hope you are having a good summer!

Detective Corporal Holly B. Moore
St. Albans Police Department
30 Lower Welden Street

SOLUTION CHANGE

DataMaster DMT: 104809
Location: St. Albans PD
Date: 07/25/2012
Performed by: HOLLY B MOORE



Accuracy and Precision Check

Concentration =
Lot # =
Range =
Average =
Std Dev =
Sim. Temp. out of range

Simulator Temperature:

Solution Change Failed

Performed by

Date

08/06/2012

SOLUTION CHANGE

DataMaster DMT: 104809
Location: St. Albans PD
Date: 08/06/2012
Performed by: ROBERT DRISCOLL



Accuracy and Precision Check

Concentration = 0.100 g/210L
Lot # = 12-72-100
Range = 0.095 - 0.105
Average = 0.099 g/210L
Std Dev = 0.0000

Simulator Temperature: 33.9°C

Performed by

RD

Date

08/06/2012

DIAGNOSTIC RESULT

DataMaster DMT:104809
Location: St. Albans PD
Calibration Date: 12/19/2011
Certification Date:12/20/2011
Installation Date: 01/27/2012
Test Date: 08/06/2012
Test Time: 11:16:35



VERSIONS

DMT: 1.01
PIC: 2.05
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 = 1.70 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 540 Hz

PUMP INFO

Flow Rate = 5.839 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX (V)	0.1654	0.1677
MIN (V)	0.1638	0.1661

FILTER INFO

Filter 1	0.166	Zero = true
Filter 2	0.784	Zero = true
Filter 3	0.611	Zero = true

CALIBRATION CHECK

Xq = 0.077 0.34%